

Series 04

Versatile. Robust and reliable.

<https://eao.com/04>



04 Information about the Series

Key advantages

- Versatile and reliable range of products
- Ideal for driver's cabs
- Modern and robust design
- Safe and ergonomically friendly in use
- Pronounced tactile feedback
- Customised and standardised markings

Typical application areas

- Driver's desks
- Control panels
- Control cabinets
- Special vehicles
- Machinery

Functions

- Pushbutton
- Illuminated pushbutton
- Mushroom-head pushbutton
- Selector switch
- Keylock switch
- Key insert switch
- Lever switch
- Indicator
- Potentiometer
- Stop switch
- Emergency stop switch

Design

- Flush
- Raised

IP front protection

- IP40
- IP54
- IP65
- IP67

Ratings

- 500 VAC (10 A)

Mounting cut-outs

- Ø 22.3 mm
- Ø 30.5 mm
- 30 mm x 30 mm

Terminal

- Plug-in terminal
- Double plug-in terminal
- Screw terminal
- Push-in terminal (PIT)

Lens Material

- Aluminium
- Stainless steel
- Plastic

Markings

- Engraving
- Hot stamping
- Pad printing
- Screen print
- Under eloxal printing

Approvals

- CB (IEC 60947)
- cULus
- DNV
- GOST
- NFF 16-102

Conformities

- CE
- EN 45545
- ECE R 118
- 2006/42/EU (MD)
- 2011/65/EU (RoHS)
- REACH
- CCC
- UKCA



Flush design

| | |
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| Pushbutton square | 52 |
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Flush design

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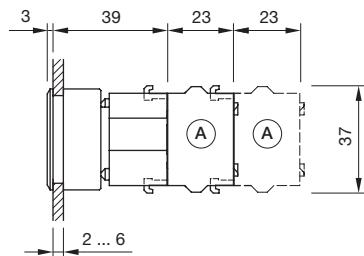
Raised design

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04 Flush design

Pushbutton square, IP65

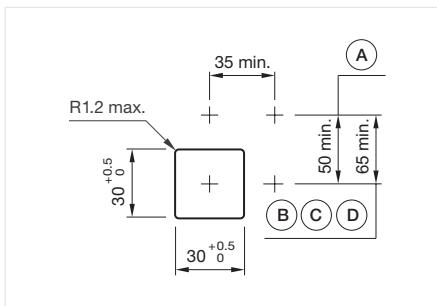


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

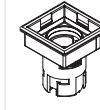
Equipment consisting of (schematic overview)



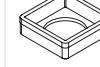
Lens



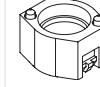
Lens holder



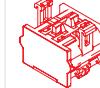
Actuator



Press frame



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|-------------|---------------|----------------|------------------|-------------|----------------|
| Momentary | Black | Plastic | Black | Plastic | Black | Plastic | 704.209.000 | 72 |
| | Black | Plastic | Red | Plastic | Black | Plastic | 704.209.200 | 72 |
| | Black | Plastic | Yellow | Plastic | Black | Plastic | 704.209.400 | 72 |
| | Black | Plastic | Green | Plastic | Black | Plastic | 704.209.500 | 72 |
| | Black | Plastic | Blue | Plastic | Black | Plastic | 704.209.600 | 72 |
| | Black | Plastic | Colourless | Plastic | Black | Plastic | 704.209.700 | 72 |
| | Silver | Plastic | Black | Plastic | Black | Plastic | 704.210.008 | 72 |
| | Silver | Plastic | Red | Plastic | Black | Plastic | 704.210.208 | 72 |
| | Silver | Plastic | Yellow | Plastic | Black | Plastic | 704.210.408 | 72 |
| | Silver | Plastic | Green | Plastic | Black | Plastic | 704.210.508 | 72 |
| | Silver | Plastic | Blue | Plastic | Black | Plastic | 704.210.608 | 72 |
| | Silver | Plastic | Colourless | Plastic | Black | Plastic | 704.210.708 | 72 |
| Maintained | Black | Plastic | Red | Plastic | Black | Plastic | 704.239.200 | 73 |
| | Black | Plastic | Yellow | Plastic | Black | Plastic | 704.239.400 | 73 |
| | Black | Plastic | Blue | Plastic | Black | Plastic | 704.239.600 | 73 |
| | Black | Plastic | Colourless | Plastic | Black | Plastic | 704.239.700 | 73 |
| | Silver | Plastic | Yellow | Plastic | Black | Plastic | 704.240.408 | 73 |
| | Silver | Plastic | Green | Plastic | Black | Plastic | 704.240.508 | 73 |
| | Silver | Plastic | Colourless | Plastic | Black | Plastic | 704.240.708 | 73 |

Wiring diagrams

| | |
|-------------------|-------------------|
| E--- | E~-- |
| Wiring diagram 72 | Wiring diagram 73 |

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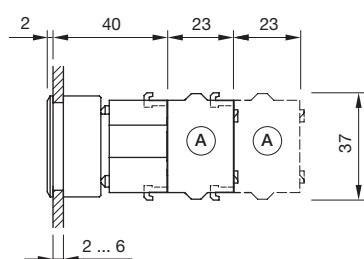
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04 Flush design

Pushbutton round, IP65



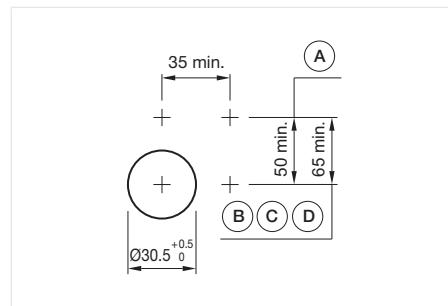
Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal

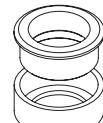
General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Front bezel set



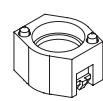
Lens



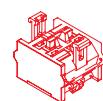
Marking Plate



Actuator



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Front bezel surface | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|---------------------|-------------|---------------|----------------|------------------|-------------|----------------|
| Momentary | Nature | Aluminium | anodised | Black | Aluminium | Grey | Plastic | 704.011.018 | 72 |
| | Nature | Aluminium | anodised | Red | Aluminium | Grey | Plastic | 704.011.218 | 72 |
| | Nature | Aluminium | anodised | Gold | Aluminium | Grey | Plastic | 704.011.418 | 72 |
| | Nature | Aluminium | anodised | Olive green | Aluminium | Grey | Plastic | 704.011.518 | 72 |
| | Nature | Aluminium | anodised | Blue | Aluminium | Grey | Plastic | 704.011.618 | 72 |
| | Nature | Aluminium | anodised | Nature | Aluminium | Grey | Plastic | 704.011.818 | 72 |
| | Nature | Aluminium | anodised | Black | Plastic | Grey | Plastic | 704.012.018 | 72 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.012.218 | 72 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.012.418 | 72 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.012.518 | 72 |
| Maintained | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | 704.012.618 | 72 |
| | Nature | Aluminium | anodised | Colourless | Plastic | Grey | Plastic | 704.012.718 | 72 |
| | Nature | Aluminium | anodised | Black | Plastic | Grey | Plastic | 704.042.018 | 73 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.042.218 | 73 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.042.418 | 73 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.042.518 | 73 |

Wiring diagrams

| | |
|-------------------|-------------------|
| E--- | E~-- |
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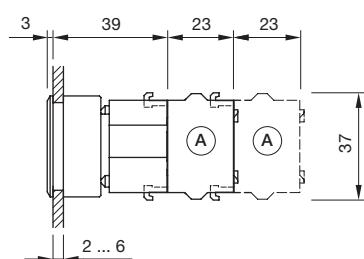
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04 Flush design

Pushbutton square, IP65



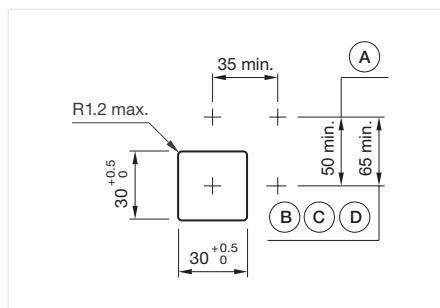
Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)

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|--|-------------------|----------|
| | Lens | Page 199 |
| | Lens holder | Page 201 |
| | Actuator | |
| | Press frame | |
| | Bayonet flange | Page 203 |
| | Switching element | Page 213 |

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|----------------|------------------|-----------|----------------|
| Momentary | Black | Plastic | Black | Plastic | 704.741.0 | 72 |
| | Silver | Plastic | Black | Plastic | 704.741.8 | 72 |
| Maintained | Black | Plastic | Black | Plastic | 704.742.0 | 73 |
| | Silver | Plastic | Black | Plastic | 704.742.8 | 73 |

Wiring diagrams



Wiring diagram 72



Wiring diagram 73

Pushbutton round, IP65

Equipment consisting of (schematic overview)



Front bezel set Page 202



Lens Page 199



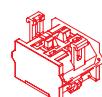
Marking Plate Page 201



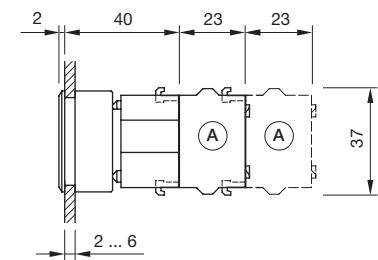
Actuator



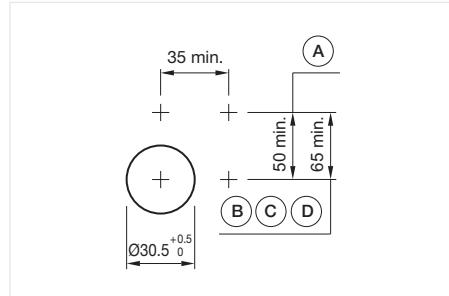
Bayonet flange Page 203



Switching element Page 213

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

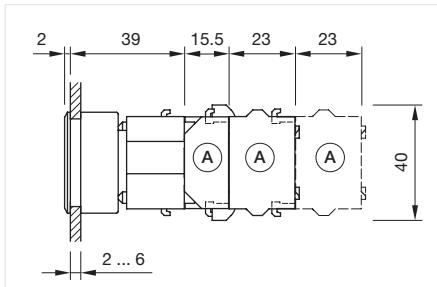
| Switching action | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|----------------|------------------|-----------|----------------|
| Momentary | Grey | Plastic | 704.631.1 | 72 |
| Maintained | Grey | Plastic | 704.632.1 | 73 |

Wiring diagrams

| | |
|-------------------|-------------------|
| E--- | E~-- |
| Wiring diagram 72 | Wiring diagram 73 |

04 Flush design

Illuminated pushbutton square, IP65

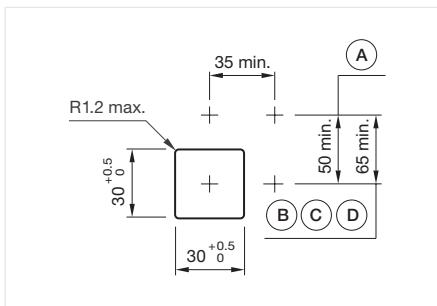


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on
- The lamp block will be delivered with screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Lens



Lens holder



Actuator



Press frame



Bayonet flange



LED

Page 204



Lamp block



Switching element

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Each Part Number listed below includes all the black components shown in the 3D-drawing.

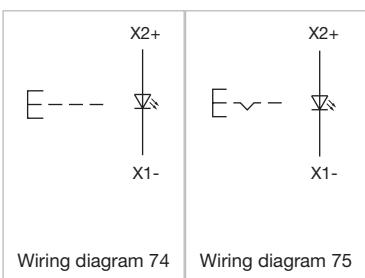
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|-------------|---------------|----------------|------------------|-------------|----------------|
| Momentary | Black | Plastic | Red | Plastic | Black | Plastic | 704.229.200 | 74 |
| | Black | Plastic | Yellow | Plastic | Black | Plastic | 704.229.400 | 74 |
| | Black | Plastic | Green | Plastic | Black | Plastic | 704.229.500 | 74 |
| | Black | Plastic | Blue | Plastic | Black | Plastic | 704.229.600 | 74 |
| | Black | Plastic | Colourless | Plastic | Black | Plastic | 704.229.700 | 74 |
| | Silver | Plastic | Red | Plastic | Black | Plastic | 704.230.208 | 74 |
| | Silver | Plastic | Yellow | Plastic | Black | Plastic | 704.230.408 | 74 |
| | Silver | Plastic | Green | Plastic | Black | Plastic | 704.230.508 | 74 |
| | Silver | Plastic | Blue | Plastic | Black | Plastic | 704.230.608 | 74 |
| | Silver | Plastic | Colourless | Plastic | Black | Plastic | 704.230.708 | 74 |
| Maintained | Black | Plastic | Red | Plastic | Black | Plastic | 704.259.200 | 75 |
| | Black | Plastic | Yellow | Plastic | Black | Plastic | 704.259.400 | 75 |
| | Black | Plastic | Green | Plastic | Black | Plastic | 704.259.500 | 75 |
| | Black | Plastic | Colourless | Plastic | Black | Plastic | 704.259.700 | 75 |
| | Silver | Plastic | Red | Plastic | Black | Plastic | 704.260.208 | 75 |
| | Silver | Plastic | Yellow | Plastic | Black | Plastic | 704.260.408 | 75 |
| | Silver | Plastic | Green | Plastic | Black | Plastic | 704.260.508 | 75 |
| | Silver | Plastic | Blue | Plastic | Black | Plastic | 704.260.608 | 75 |
| | Silver | Plastic | Colourless | Plastic | Black | Plastic | 704.260.708 | 75 |

Wiring diagrams



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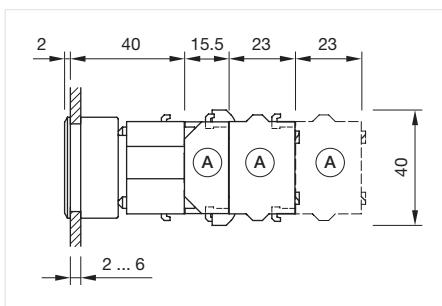


On our website you can download technical data, assembly instructions, catalogs, brochures and much more.



04 Flush design

Illuminated pushbutton round, IP65

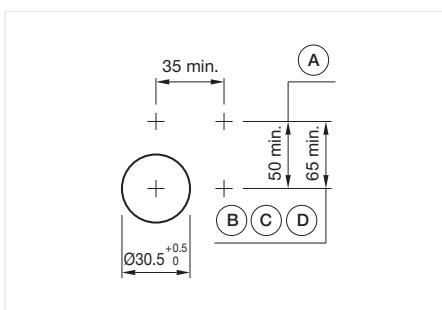


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

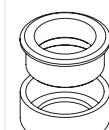
General information

- Max. 3 switching elements can be clipped on
- The lamp block will be delivered with screw terminal
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Front bezel set



Lens



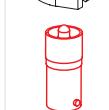
Marking Plate



Actuator



Bayonet flange

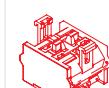


LED

Page 204



Lamp block



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

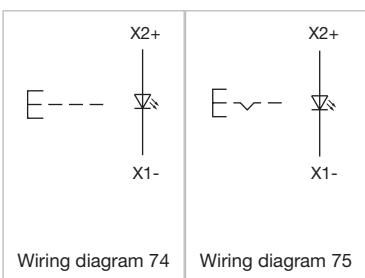
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Front bezel surface | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|---------------------|-------------|---------------|----------------|------------------|-------------|----------------|
| Momentary | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.032.218 | 74 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.032.418 | 74 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.032.518 | 74 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | 704.032.618 | 74 |
| | Nature | Aluminium | anodised | Colourless | Plastic | Grey | Plastic | 704.032.718 | 74 |
| Maintained | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.062.218 | 75 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.062.418 | 75 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.062.518 | 75 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | 704.062.618 | 75 |
| | Nature | Aluminium | anodised | Colourless | Plastic | Grey | Plastic | 704.062.718 | 75 |

Wiring diagrams



Modern. Tactile and long-lasting.
Series 04 illuminated selector switches.

Intuitive and reliable operation for enhanced safety in public transportation.

- Bright, single or bi-colour LED illumination
- Modern, ergonomic design
- Rounded edges (in accordance with DIN 5566-1)
- Excellent tactile feedback
- Long service life and robust construction
- Wide range of possible combinations and options

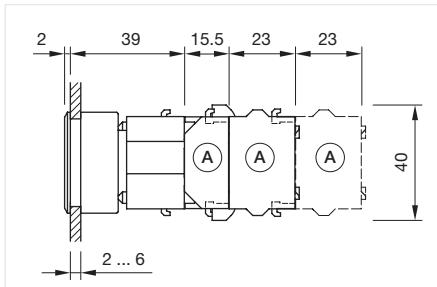
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04 Flush design

Illuminated pushbutton square, IP65

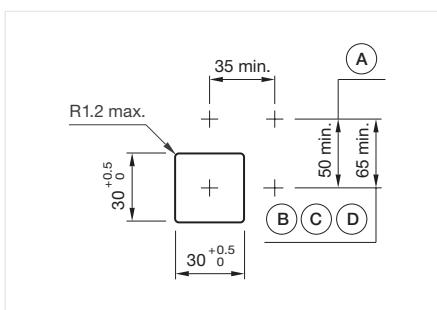


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)

| | | |
|--|-------------------|----------|
| | Lens | Page 199 |
| | Lens holder | Page 201 |
| | Actuator | |
| | Press frame | |
| | Bayonet flange | Page 203 |
| | LED | Page 204 |
| | Lamp block | Page 210 |
| | Switching element | Page 213 |

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|----------------|------------------|-----------|----------------|
| Momentary | Black | Plastic | Black | Plastic | 704.741.0 | 72 |
| | Silver | Plastic | Black | Plastic | 704.741.8 | 72 |
| Maintained | Black | Plastic | Black | Plastic | 704.742.0 | 73 |
| | Silver | Plastic | Black | Plastic | 704.742.8 | 73 |

Wiring diagrams

E---

E~--

Wiring diagram 72

Wiring diagram 73

Illuminated pushbutton round, IP65

Equipment consisting of (schematic overview)



Front bezel set Page 202



Lens Page 199



Marking Plate Page 201



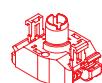
Actuator



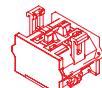
Bayonet flange Page 203



LED Page 204



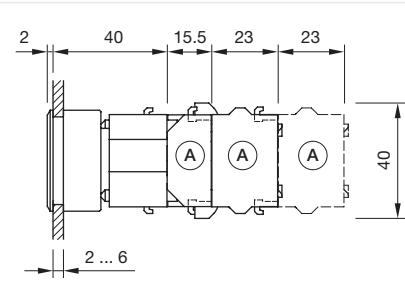
Lamp block Page 210



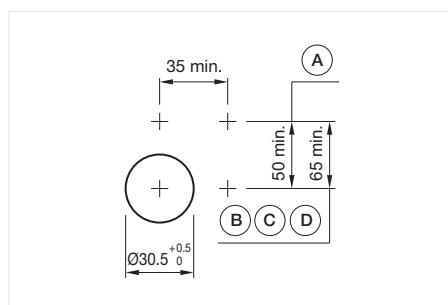
Switching element Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Actuator, Front dimension Ø 35 mm

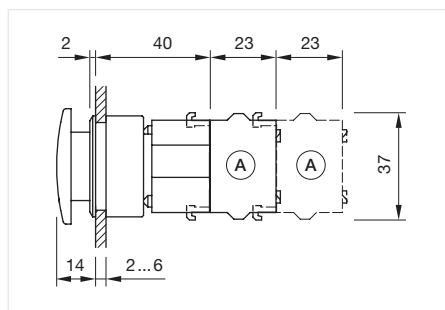
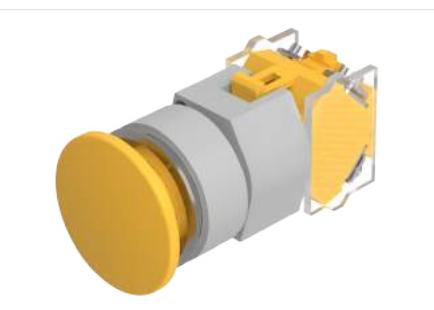
| Switching action | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|----------------|------------------|-----------|----------------|
| Momentary | Grey | Plastic | 704.631.1 | 72 |
| Maintained | Grey | Plastic | 704.632.1 | 73 |

Wiring diagrams

| | |
|-------------------|-------------------|
| E--- | E~-- |
| Wiring diagram 72 | Wiring diagram 73 |

04 Flush design

Mushroom-head pushbutton, IP65

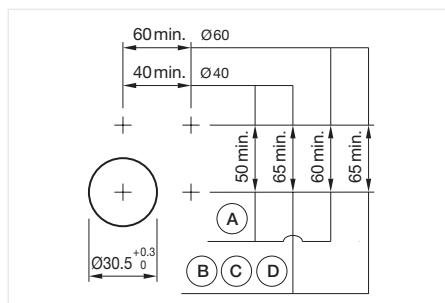


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

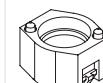
Equipment consisting of (schematic overview)



Actuator



Pressure ring



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 40 mm

| Switching action | Front bezel colour | Front bezel material | Front bezel surface | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|---------------------|-------------|---------------|----------------|------------------|-------------|----------------|
| Momentary | Black | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.071.210 | 72 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.071.218 | 72 |
| | Black | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.071.410 | 72 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.071.418 | 72 |

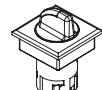
Wiring diagrams



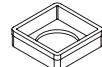
Wiring diagram 72

Selector switch illuminated, 2 positions, short lever, square, IP65

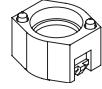
Equipment consisting of (schematic overview)



Actuator



Press frame

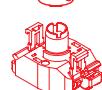


Bayonet flange



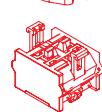
LED

Page 204



Lamp block

Page 210

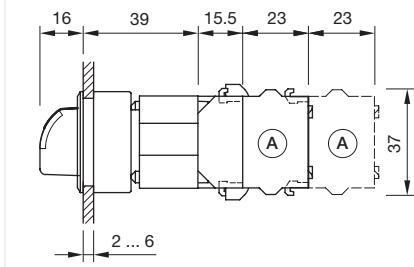


Switching element

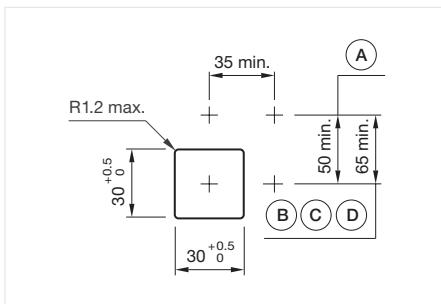
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.



General information

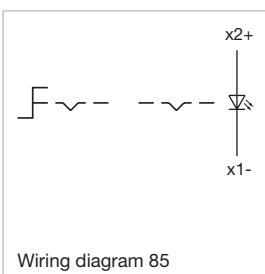
- Max. 3 switching elements can be clipped on



Actuator, Front dimension 35 mm x 35 mm

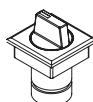
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|--------------|----------------|
| Rest - Maintained | Black | Plastic | 90° right | 704.510.000I | 85 |
| | Silver | Plastic | 90° right | 704.510.008I | 85 |

Wiring diagrams



Selector switch 2 positions short lever, square, IP65

Equipment consisting of (schematic overview)



Actuator



Press frame



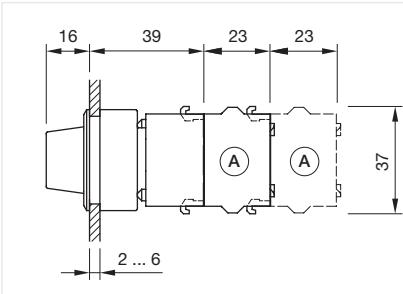
Bayonet flange



Switching element Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

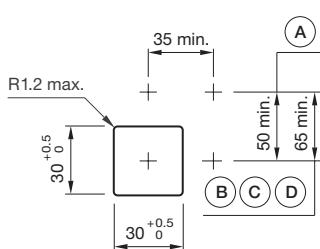
To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]

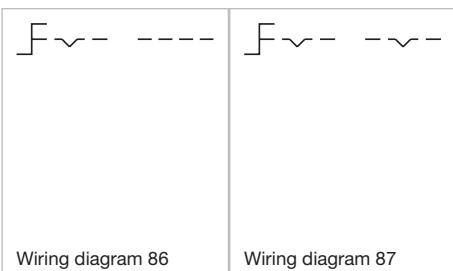
A = Screw terminal
 B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 35 mm x 35 mm

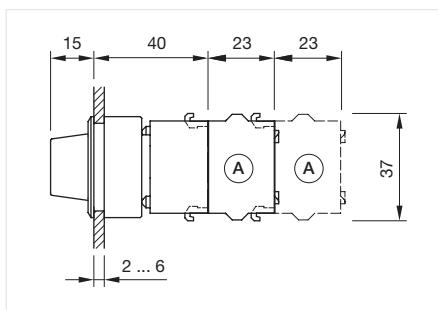
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|-------------|----------------|
| Rest - Maintained | Black | Plastic | 90° right | 704.510.000 | 87 |
| | Silver | Plastic | 90° right | 704.510.008 | 87 |
| Rest - Momentary | Black | Plastic | 42° right | 704.512.000 | 86 |
| | Silver | Plastic | 42° right | 704.512.008 | 86 |

Wiring diagrams



04 Flush design

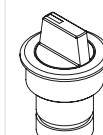
Selector switch 2 positions, short lever, round, IP65



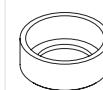
Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

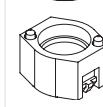
Equipment consisting of (schematic overview)



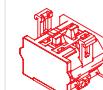
Actuator



Pressure ring



Bayonet flange

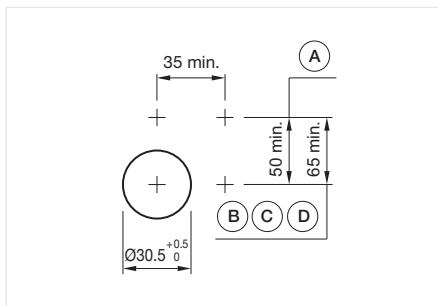


Switching element

Page 213

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|-------------|----------------|
| Rest - Maintained | Black | Aluminium | 90° right | anodised | 704.411.010 | 87 |
| | Nature | Aluminium | 90° right | anodised | 704.411.018 | 87 |
| Rest - Momentary | Black | Aluminium | 42° right | anodised | 704.413.010 | 86 |
| | Nature | Aluminium | 42° right | anodised | 704.413.018 | 86 |

Wiring diagrams

| | |
|-------------------|-------------------|
| | |
| Wiring diagram 86 | Wiring diagram 87 |

Selector switch 2 positions, short lever, square, IP65

Equipment consisting of (schematic overview)



Actuator



Press frame



Bayonet flange

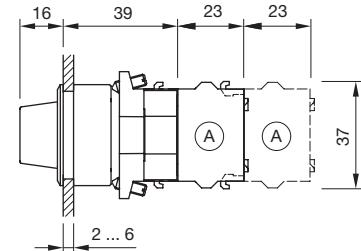


Switching element

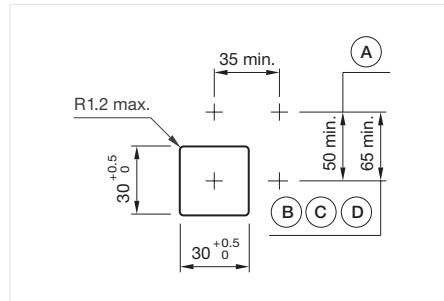
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

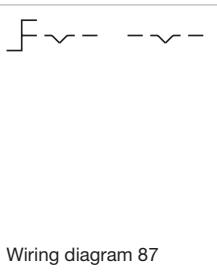
- Max. 3 switching elements can be clipped on



Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|----------------|----------------|
| Rest - Maintained | Black | Plastic | 90° right | 704.510.000.12 | 87 |

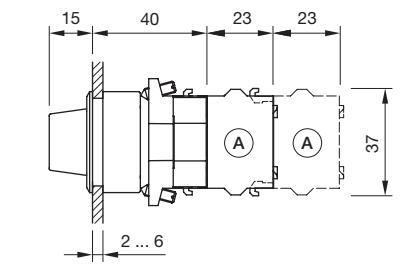
Wiring diagrams



Wiring diagram 87

04 Flush design

Selector switch 2 positions, short lever, round, IP65

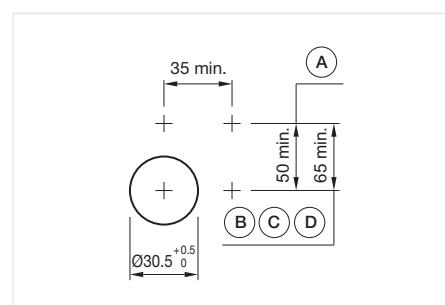


Product can differ from the current configuration.

Dimensions [mm]
X = Screw terminal

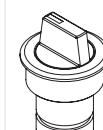
General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons

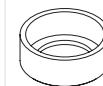


Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

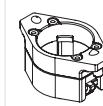
Equipment consisting of (schematic overview)



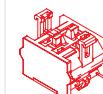
Actuator



Pressure ring



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

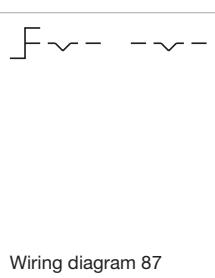
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|----------------|----------------|
| Rest - Maintained | Black | Aluminium | 90° right | anodised | 704.411.010.12 | 87 |
| | Nature | Aluminium | 90° right | anodised | 704.411.018.12 | 87 |

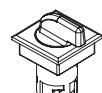
Wiring diagrams



Wiring diagram 87

Selector switch illuminated, 2 positions, long lever, square, IP65

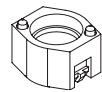
Equipment consisting of (schematic overview)



Actuator



Press frame

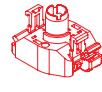


Bayonet flange



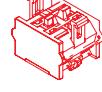
LED

Page 204



Lamp block

Page 210

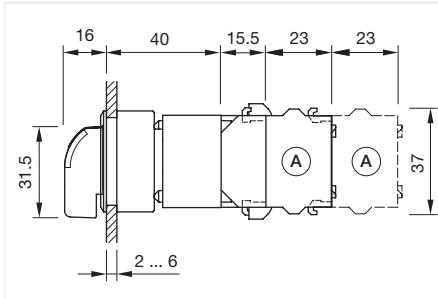


Switching element

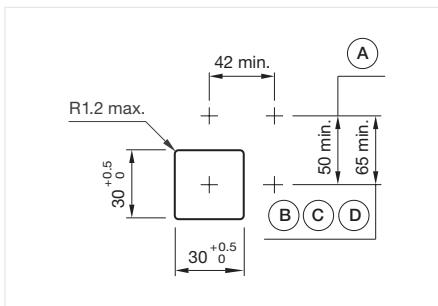
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3v x 0.8 mm

General information

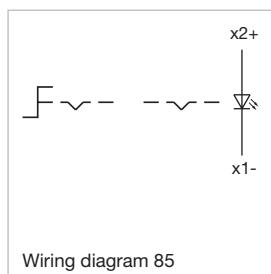
- Max. 3 switching elements can be clipped on



Actuator, Front dimension 35 mm x 35 mm

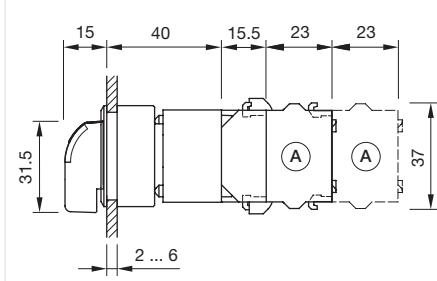
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|--------------|----------------|
| Rest - Maintained | Black | Plastic | 90° right | 704.300.000I | 85 |

Wiring diagrams



04 Flush design

Selector switch illuminated, 2 positions, long lever, round, IP65

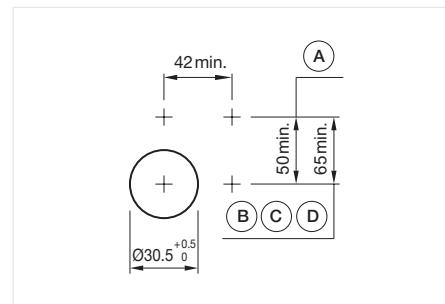


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

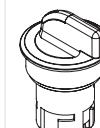
General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

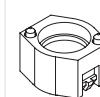
Equipment consisting of (schematic overview)



Actuator



Pressure ring



Bayonet flange



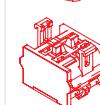
LED

Page 204



Lamp block

Page 210



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

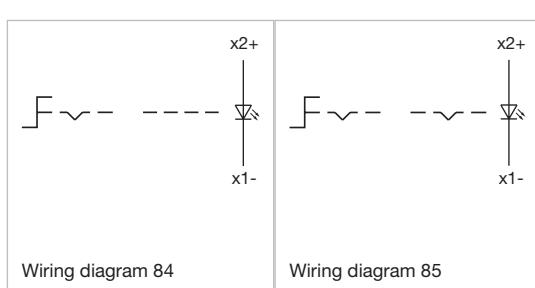
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|--------------|----------------|
| Rest - Maintained | Black | Aluminium | 90° right | anodised | 704.101.010I | 85 |
| | Nature | Aluminium | 90° right | anodised | 704.101.018I | 85 |
| Rest - Momentary | Nature | Aluminium | 42° right | anodised | 704.103.018I | 84 |

Wiring diagrams

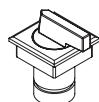


Wiring diagram 84

Wiring diagram 85

Selector switch 2 positions, long lever, square, IP65

Equipment consisting of (schematic overview)



Actuator



Press frame



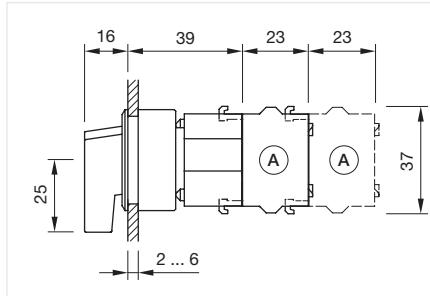
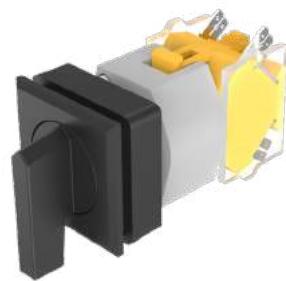
Bayonet flange



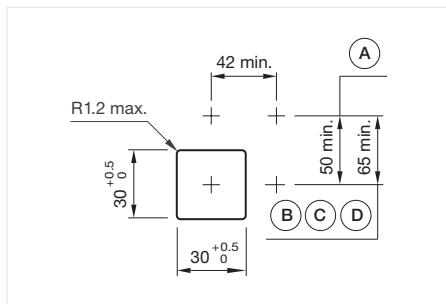
Switching element Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on



Actuator, Front dimension 35 mm x 35 mm

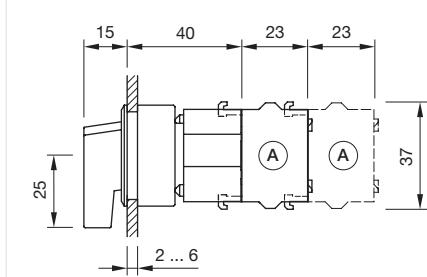
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|-------------|----------------|
| Rest - Maintained | Black | Plastic | 90° right | 704.300.000 | 87 |
| | Silver | Plastic | 90° right | 704.300.008 | 87 |
| Rest - Momentary | Black | Plastic | 42° right | 704.302.000 | 86 |

Wiring diagrams

| | |
|-------------------|-------------------|
| | |
| Wiring diagram 86 | Wiring diagram 87 |

04 Flush design

Selector switch 2 positions, long lever, round, IP65

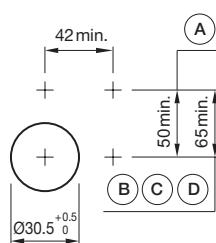


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

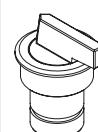
General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Actuator



Pressure ring



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

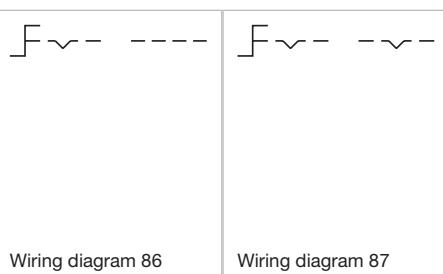
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|-------------|----------------|
| Rest - Maintained | Black | Aluminium | 90° right | anodised | 704.101.010 | 87 |
| | Nature | Aluminium | 90° right | anodised | 704.101.018 | 87 |
| Rest - Momentary | Nature | Aluminium | 42° right | anodised | 704.103.018 | 86 |

Wiring diagrams

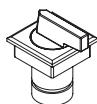


Wiring diagram 86

Wiring diagram 87

Selector switch 2 positions, 12 o'clock, long lever, square, IP65

Equipment consisting of (schematic overview)



Actuator



Press frame



Bayonet flange

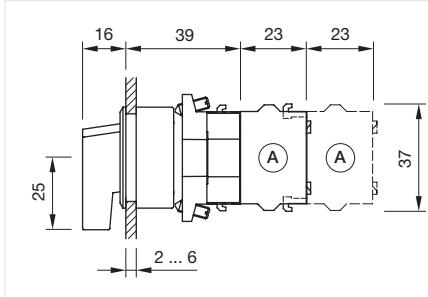


Switching element

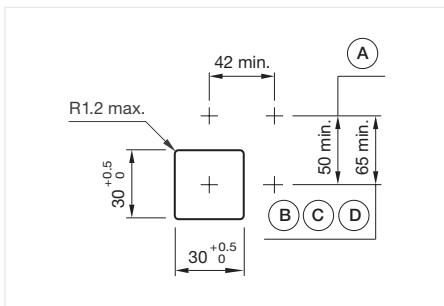
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on

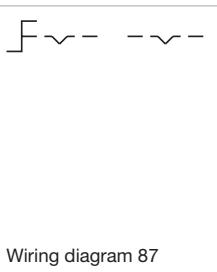
Mounting cut-outs [mm]
 A = Screw terminal
 B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3v x 0.8 mm



Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|----------------|----------------|
| Rest - Maintained | Black | Plastic | 90° right | 704.300.000.12 | 87 |

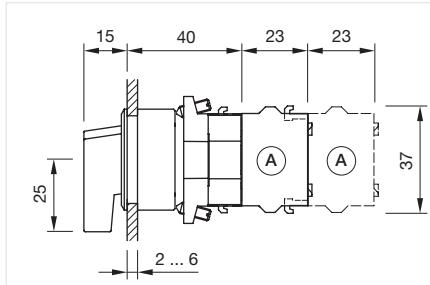
Wiring diagrams



Wiring diagram 87

04 Flush design

Selector switch 2 positions, long lever, round, IP65

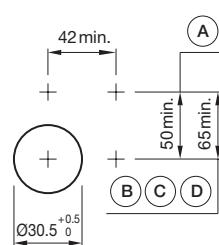


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

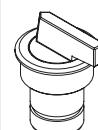
General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Actuator



Pressure ring



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

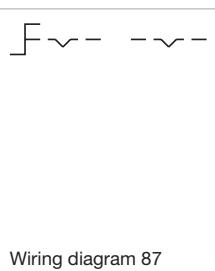
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|----------------|----------------|
| Rest - Maintained | Black | Aluminium | 90° right | anodised | 704.101.010.12 | 87 |
| | Nature | Aluminium | 90° right | anodised | 704.101.018.12 | 87 |

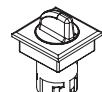
Wiring diagrams



Wiring diagram 87

Selector switch illuminated, 3 positions, short lever, square, IP65

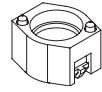
Equipment consisting of (schematic overview)



Actuator



Press frame

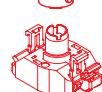


Bayonet flange



LED

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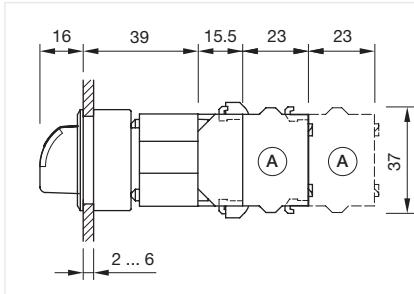
Lamp block

Page 210



Switching element

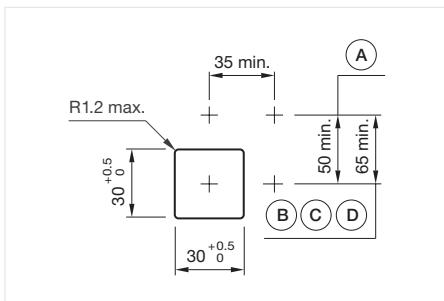
Page 213

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



General information

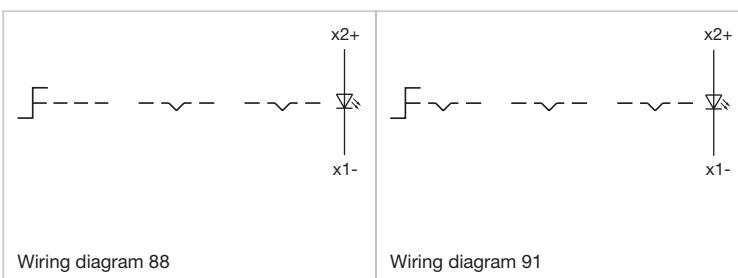
- Max. 3 switching elements can be clipped on



Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|--------------|----------------|
| Maintained - Rest - Maintained | Black | Plastic | 42° left / 42° right | 704.502.000I | 91 |
| Momentary - Rest - Maintained | Black | Plastic | 42° left / 42° right | 704.508.000I | 88 |
| | Silver | Plastic | 42° left / 42° right | 704.508.008I | 88 |

Wiring diagrams



04 Flush design

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e a o ■

Selector switch illuminated, 3 positions, short lever, round, IP65

Equipment consisting of (schematic overview)



Actuator



Pressure ring



Bayonet flange



LED

Page 204



Lamp block

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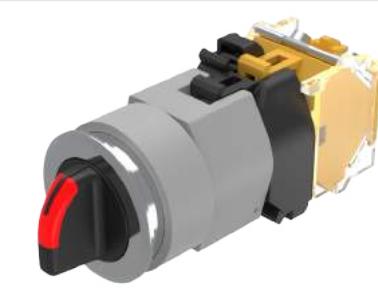
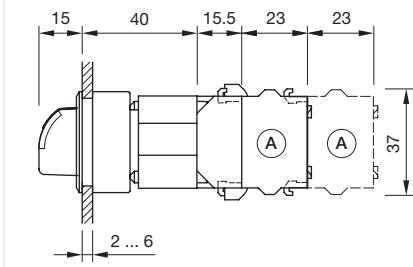


Switching element

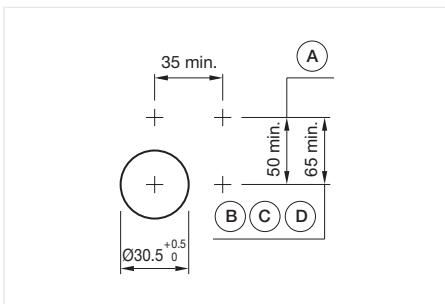
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

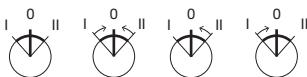


Product can differ from the current configuration.



General information

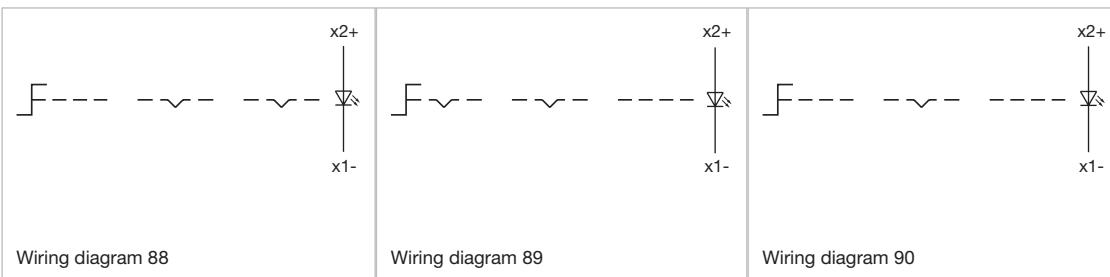
- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Actuator, Front dimension Ø 35 mm

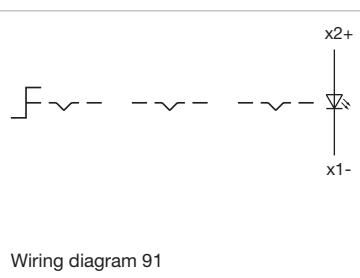
| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|---------------------|--------------|----------------|
| Maintained - Rest - Maintained | Black | Aluminium | 42° left / 42° right | anodised | 704.403.010I | 91 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.403.018I | 91 |
| Momentary - Rest - Momentary | Black | Aluminium | 42° left / 42° right | anodised | 704.405.010I | 90 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.405.018I | 90 |
| Maintained - Rest - Momentary | Nature | Aluminium | 42° left / 42° right | anodised | 704.407.018I | 89 |
| Momentary - Rest - Maintained | Nature | Aluminium | 42° left / 42° right | anodised | 704.409.018I | 88 |

Wiring diagrams



04 Flush design

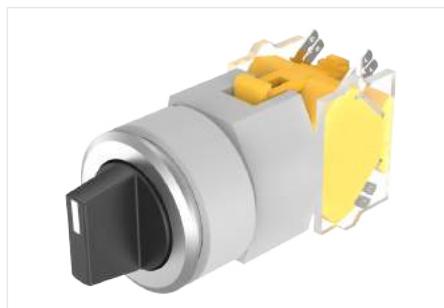
Wiring diagrams



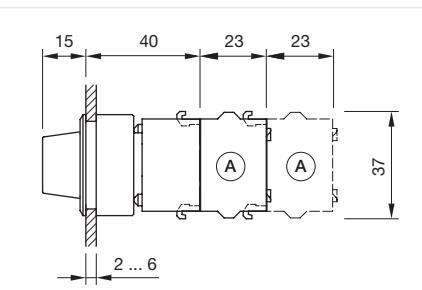
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04 Flush design

Selector switch 3 positions, short lever, round, IP65



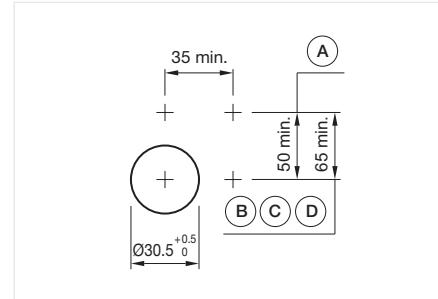
Product can differ from the current configuration.



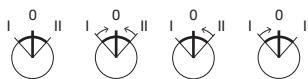
Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



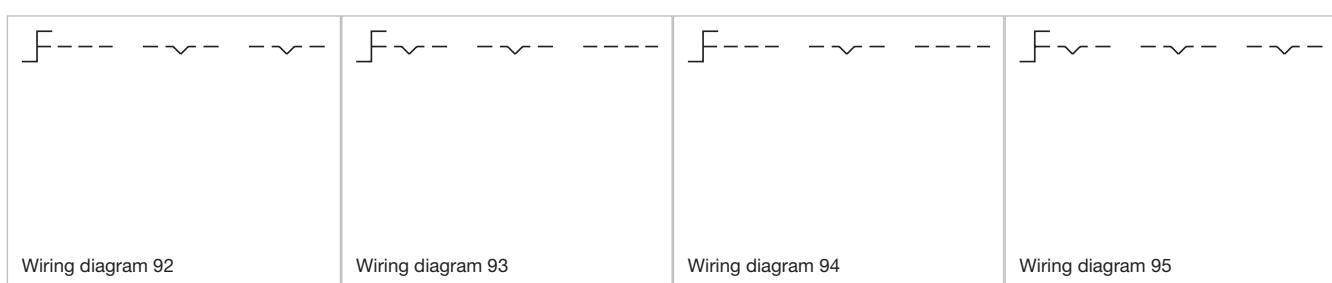
Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|---------------------|-------------|----------------|
| Maintained - Rest - Maintained | Black | Aluminium | 42° left / 42° right | anodised | 704.403.010 | 95 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.403.018 | 95 |
| Momentary - Rest - Momentary | Black | Aluminium | 42° left / 42° right | anodised | 704.405.010 | 94 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.405.018 | 94 |
| Maintained - Rest - Momentary | Black | Aluminium | 42° left / 42° right | anodised | 704.407.010 | 93 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.407.018 | 93 |
| Momentary - Rest - Maintained | Black | Aluminium | 42° left / 42° right | anodised | 704.409.010 | 92 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.409.018 | 92 |

Wiring diagrams



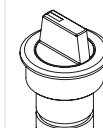
Wiring diagram 92

Wiring diagram 93

Wiring diagram 94

Wiring diagram 95

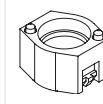
Equipment consisting of (schematic overview)



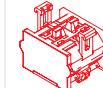
Actuator



Pressure ring



Bayonet flange



Switching element

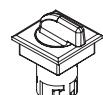
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Selector switch illuminated, 3 positions, long lever, square, IP65

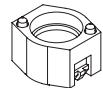
Equipment consisting of (schematic overview)



Actuator



Press frame

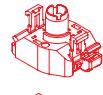


Bayonet flange



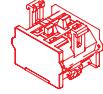
LED

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Lamp block

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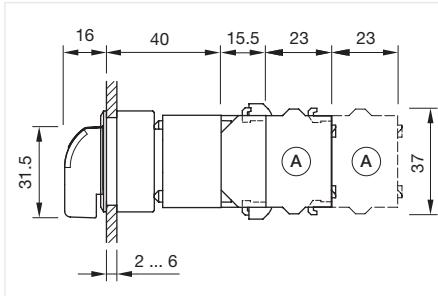


Switching element

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Each Part Number listed below includes all the black components shown in the 3D-drawing.

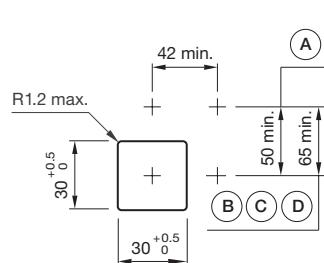
To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]

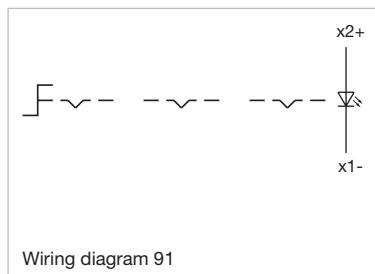
- A = Screw terminal
 B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3v x 0.8 mm



Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|--------------|----------------|
| Maintained - Rest - Maintained | Black | Plastic | 42° left / 42° right | 704.292.000I | 91 |
| | Silver | Plastic | 42° left / 42° right | 704.292.008I | 91 |

Wiring diagrams



04 Flush design

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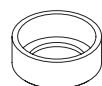
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Selector switch illuminated, 3 positions long lever, round, IP65

Equipment consisting of (schematic overview)



Actuator



Pressure ring

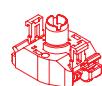


Bayonet flange



LED

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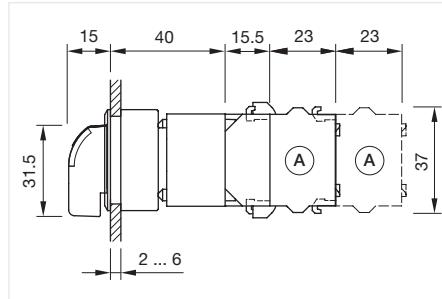
Lamp block

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Switching element

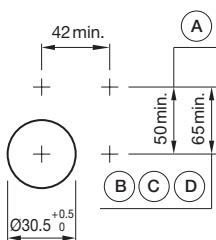
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Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons

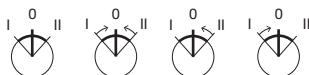


Mounting cut-outs [mm]

- A = Screw terminal
 B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

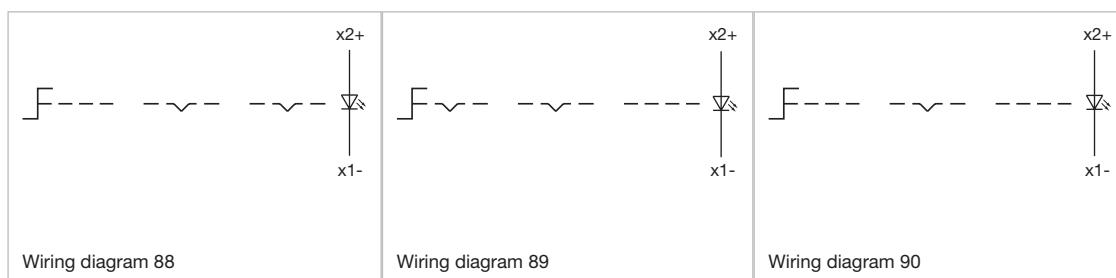
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

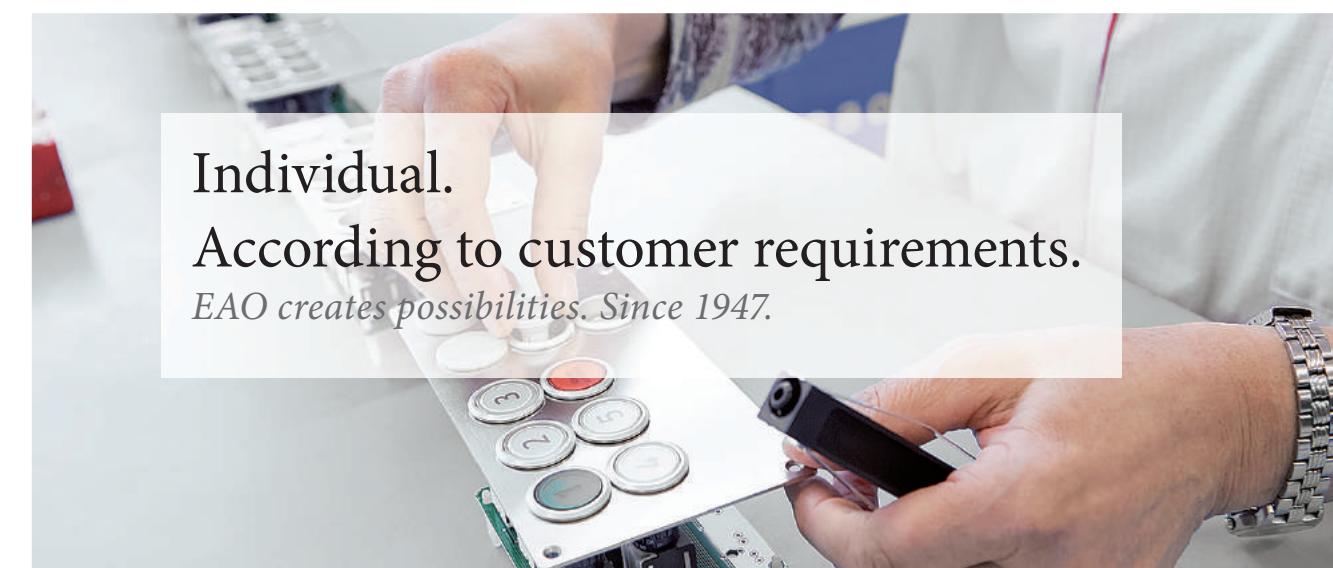
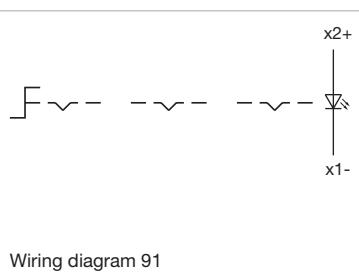
| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|---------------------|--------------|----------------|
| Maintained - Rest - Maintained | Black | Aluminium | 42° left / 42° right | anodised | 704.093.010I | 91 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.093.018I | 91 |
| Momentary - Rest - Momentary | Black | Aluminium | 42° left / 42° right | anodised | 704.095.010I | 90 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.095.018I | 90 |
| Maintained - Rest - Momentary | Black | Aluminium | 42° left / 42° right | anodised | 704.097.010I | 89 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.097.018I | 89 |
| Momentary - Rest - Maintained | Nature | Aluminium | 42° left / 42° right | anodised | 704.099.018I | 88 |

Wiring diagrams



04 Flush design

Wiring diagrams



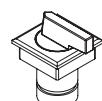
[With our value-added services, we individually modify our standard components](#) in accordance with our customers' needs – quickly and cost-effectively.

- Customer-specific marking
- Individual illumination
- Customized software
- Customized cables and connectors
- Mechanical and electronic adaptations
- Manufacturing of mounting sets

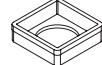
e a o ■

Selector switch 3 positions, long lever, square, IP65

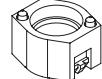
Equipment consisting of (schematic overview)



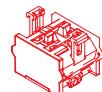
Actuator



Press frame



Bayonet flange

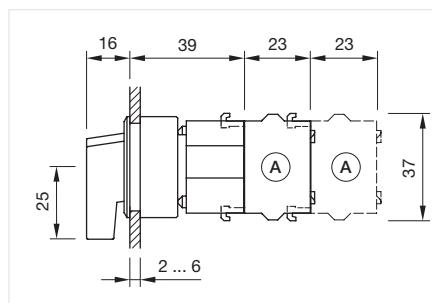


Switching element

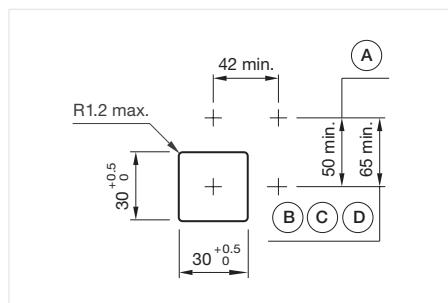
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on



Actuator, Front dimension 35 mm x 35 mm

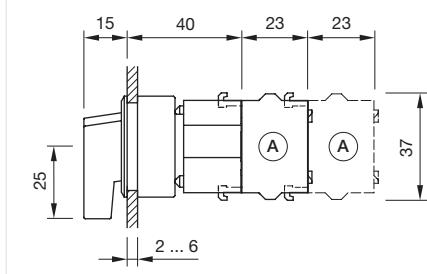
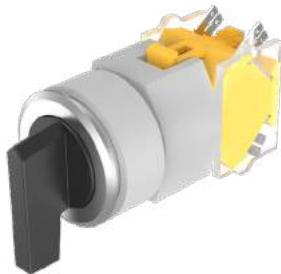
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|-------------|----------------|
| Maintained - Rest - Maintained | Black | Plastic | 42° left / 42° right | 704.292.000 | 95 |
| | Silver | Plastic | 42° left / 42° right | 704.292.008 | 95 |
| Momentary - Rest - Momentary | Black | Plastic | 42° left / 42° right | 704.294.000 | 94 |
| | Silver | Plastic | 42° left / 42° right | 704.294.008 | 94 |
| Maintained - Rest - Momentary | Black | Plastic | 42° left / 42° right | 704.296.000 | 93 |

Wiring diagrams

| | | |
|-------------------|-------------------|-------------------|
| | | |
| Wiring diagram 93 | Wiring diagram 94 | Wiring diagram 95 |

04 Flush design

Selector switch 3 positions, long lever, round, IP65



Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

Equipment consisting of (schematic overview)



Actuator



Pressure ring



Bayonet flange

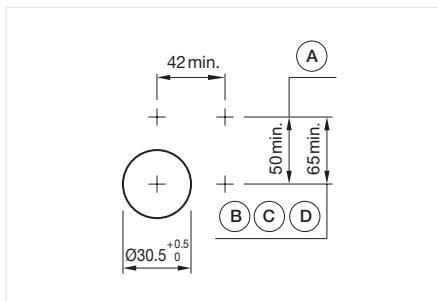


Switching element

Page 213

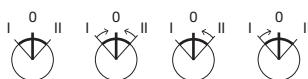
General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

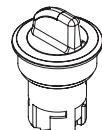
| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|---------------------|-------------|----------------|
| Maintained - Rest - Maintained | Black | Aluminium | 42° left / 42° right | anodised | 704.093.010 | 95 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.093.018 | 95 |
| Momentary - Rest - Momentary | Black | Aluminium | 42° left / 42° right | anodised | 704.095.010 | 94 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.095.018 | 94 |
| Maintained - Rest - Momentary | Black | Aluminium | 42° left / 42° right | anodised | 704.097.010 | 93 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.097.018 | 93 |
| Momentary - Rest - Maintained | Black | Aluminium | 42° left / 42° right | anodised | 704.099.010 | 92 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.099.018 | 92 |

Wiring diagrams

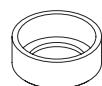
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|-------------------|-------------------|-------------------|-------------------|
| | | | |
| Wiring diagram 92 | Wiring diagram 93 | Wiring diagram 94 | Wiring diagram 95 |

Selector rotary switch, short lever rounded, round, IP65

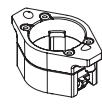
Equipment consisting of (schematic overview)



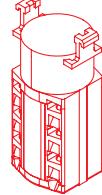
Actuator



Pressure ring



Bayonet flange

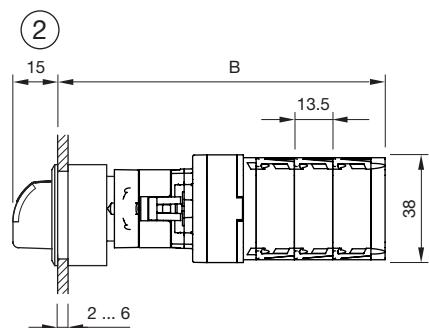
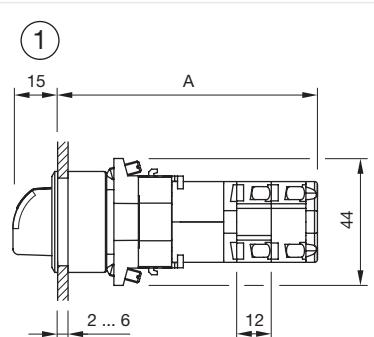


Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.

General information

- The colour of anodised aluminium parts can vary due to technical production reasons

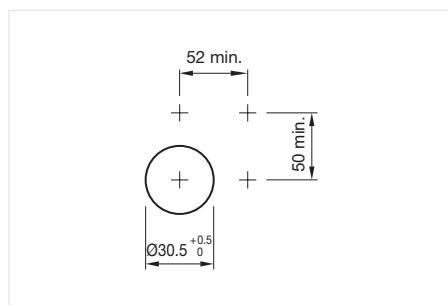
Dimensions [mm]

1 = Kraus & Naimer switching element

A = (Number of stages x 12) + 66.5 mm

2 = Santon switching element

B = (Number of stages x 13.5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension Ø 35 mm

| Front bezel colour | Front bezel material | Switching positions | Front bezel surface | Part No. |
|--------------------|----------------------|---------------------|---------------------|----------------|
| Black | Aluminium | Rest = 12 o'clock | anodised | 704.411.010KNI |
| Nature | Aluminium | Rest = 12 o'clock | anodised | 704.411.018KNI |
| | Aluminium | Rest = 9 o'clock | anodised | 704.411.118KNI |

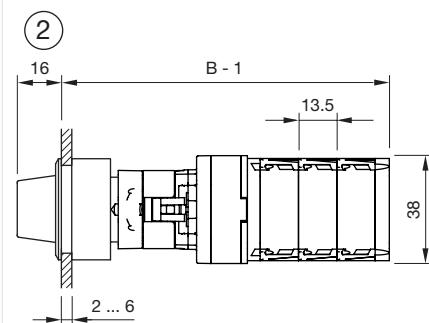
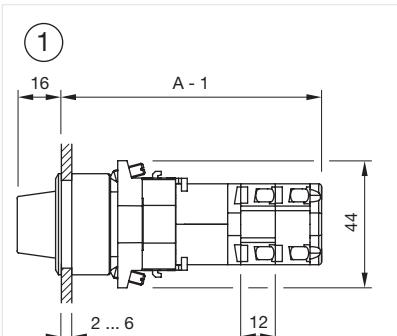
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04 Flush design

Selector rotary switch, short lever, square, IP65

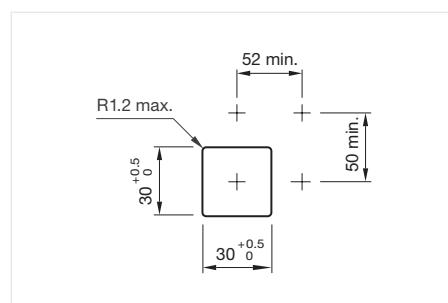


Product can differ from the current configuration.



Dimensions [mm]

1 = Kraus & Naimer switching element
A = (Number of stages x 12) + 66.5 mm
2 = Santon switching element
B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension 35 mm x 35 mm

| Front bezel colour | Front bezel material | Switching positions | Part No. |
|--------------------|----------------------|---------------------|---------------|
| Black | Plastic | Rest = 9 o'clock | 704.510.100KN |
| Silver | Plastic | Rest = 9 o'clock | 704.510.108KN |

Equipment consisting of (schematic overview)



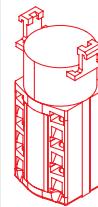
Actuator



Press frame



Bayonet flange



Switching element

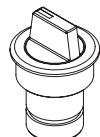
Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Selector rotary switch short lever, round, IP65

Equipment consisting of (schematic overview)



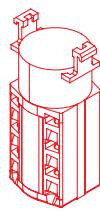
Actuator



Pressure ring



Bayonet flange

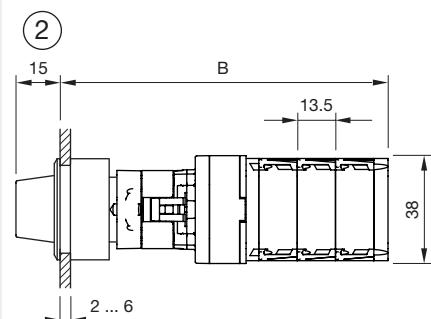
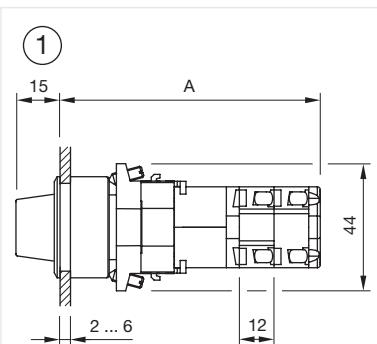


Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.

General information

- The colour of anodised aluminium parts can vary due to technical production reasons

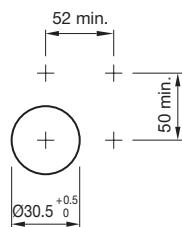
Dimensions [mm]

1 = Kraus & Naimer switching element

A = (Number of stages x 12) + 66.5 mm

2 = Santon switching element

B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension Ø 35 mm

| Front bezel colour | Front bezel material | Switching positions | Front bezel surface | Part No. |
|--------------------|----------------------|---------------------|---------------------|---------------|
| Black | Aluminium | Rest = 12 o'clock | anodised | 704.411.010KN |
| Nature | Aluminium | Rest = 12 o'clock | anodised | 704.411.018KN |
| Black | Aluminium | Rest = 9 o'clock | anodised | 704.411.110KN |
| Nature | Aluminium | Rest = 9 o'clock | anodised | 704.411.118KN |

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04 Flush design

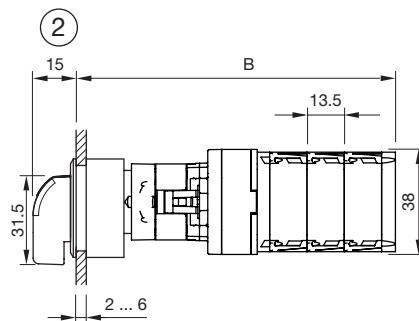
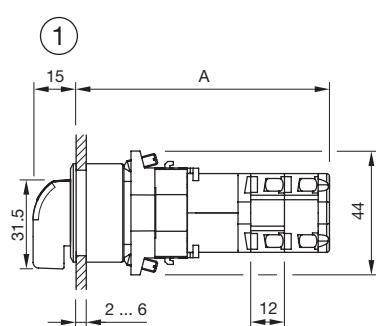
Selector rotary switch, long lever rounded, round, IP65



Product can differ from the current configuration.

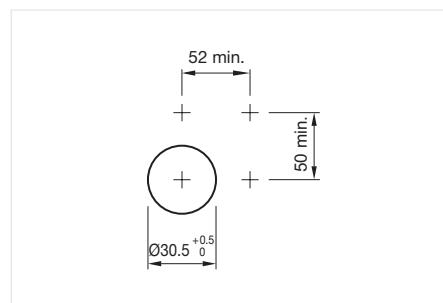
General information

- The colour of anodised aluminium parts can vary due to technical production reasons



Dimensions [mm]

- 1 = Kraus & Naimer switching element
A = (Number of stages x 12) + 66.5 mm
2 = Santon switching element
B = (Number of stages x 13.5) + 65.5 mm



Mounting cut-outs [mm]

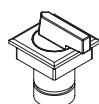


Actuator, Front dimension Ø 35 mm

| Front bezel colour | Front bezel material | Switching positions | Front bezel surface | Part No. |
|--------------------|----------------------|---------------------|---------------------|----------------|
| Nature | Aluminium | Rest = 12 o'clock | anodised | 704.101.018KNI |
| Black | Aluminium | Rest = 9 o'clock | anodised | 704.101.110KNI |
| Nature | Aluminium | Rest = 9 o'clock | anodised | 704.101.118KNI |

Selector rotary switch long lever, square, IP65

Equipment consisting of (schematic overview)



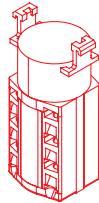
Actuator



Press frame



Bayonet flange

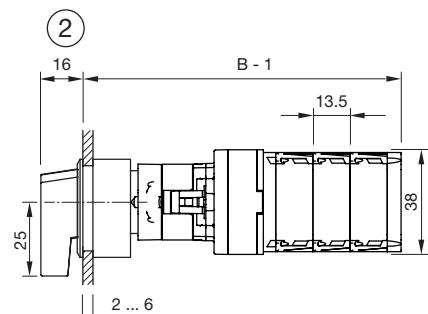
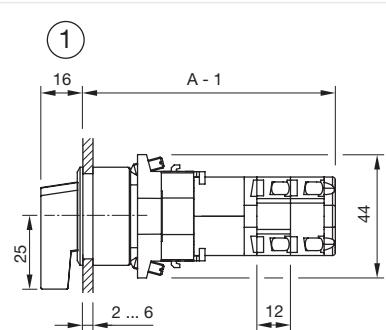


Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.

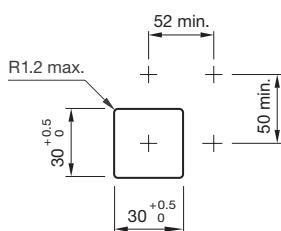
Dimensions [mm]

1 = Kraus & Naimer switching element

A = (Number of stages x 12) + 66.5 mm

2 = Santon switching element

B = (Number of stages x 13.5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension 35 mm x 35 mm

| Front bezel colour | Front bezel material | Switching positions | Part No. |
|--------------------|----------------------|---------------------|---------------|
| Black | Plastic | Rest = 9 o'clock | 704.300.100KN |
| Silver | Plastic | Rest = 9 o'clock | 704.300.108KN |

04 Flush design

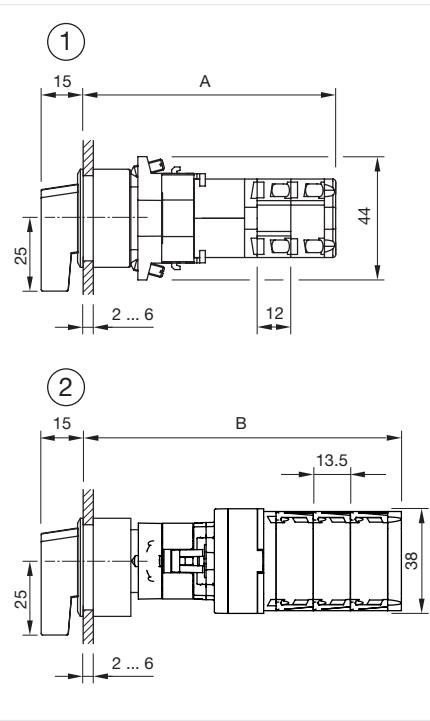
Selector rotary switch long lever, round, IP65



Product can differ from the current configuration.

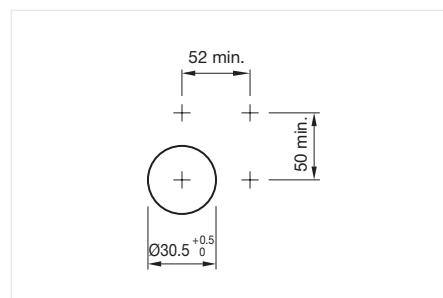
General information

- The colour of anodised aluminium parts can vary due to technical production reasons



Dimensions [mm]

1 = Kraus & Naimer switching element
A = (Number of stages x 12) + 66.5 mm
2 = Santon switching element
B = (Number of stages x 13,5) + 65.5 mm



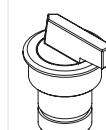
Mounting cut-outs [mm]



Actuator, Front dimension Ø 35 mm

| Front bezel colour | Front bezel material | Switching positions | Front bezel surface | Part No. |
|--------------------|----------------------|---------------------|---------------------|---------------|
| Nature | Aluminium | Rest = 12 o'clock | anodised | 704.101.018KN |
| Black | Aluminium | Rest = 9 o'clock | anodised | 704.101.110KN |
| Nature | Aluminium | Rest = 9 o'clock | anodised | 704.101.118KN |

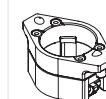
Equipment consisting of (schematic overview)



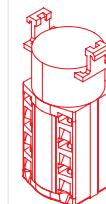
Actuator



Pressure ring



Bayonet flange



Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Keylock switch 2 positions, square, IP65

Equipment consisting of (schematic overview)



Actuator



Press frame



Bayonet flange

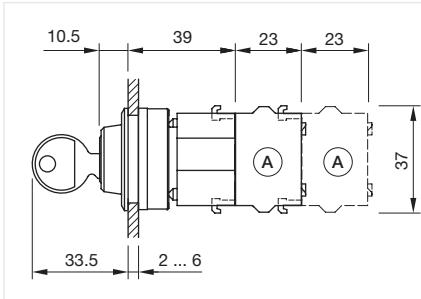
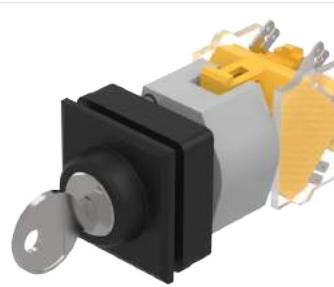


Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

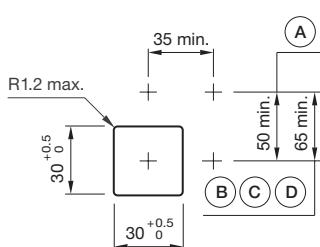
To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

General information

- Max. 3 switching elements can be clipped on
- The standard lock Ronis 251



Mounting cut-outs [mm]

A = Screw terminal
 B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3 mm x 0.8 mm

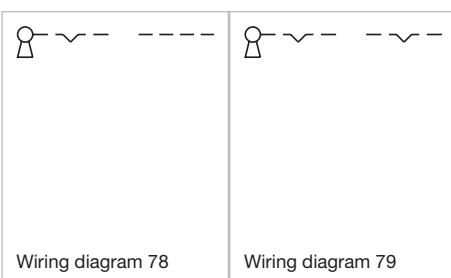


Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|---------------------------|--------------------|----------------------|-----------------|-------------|----------------|
| Rest - Maintained (a) | Black | Plastic | 90° right | 704.340.000 | 79 |
| | Silver | Plastic | 90° right | 704.340.008 | 79 |
| Rest (a) - Maintained | Black | Plastic | 90° right | 704.341.000 | 79 |
| | Silver | Plastic | 90° right | 704.341.008 | 79 |
| Rest (a) - Maintained (a) | Black | Plastic | 90° right | 704.342.000 | 79 |
| | Silver | Plastic | 90° right | 704.342.008 | 79 |
| Rest (a) - Momentary | Black | Plastic | 42° right | 704.343.000 | 78 |

a = Key remove

Wiring diagrams

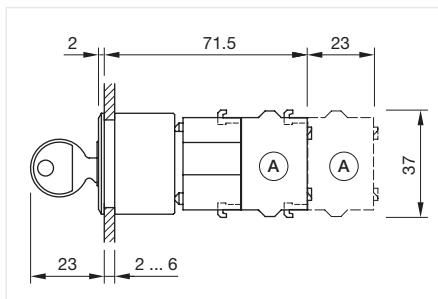


04 Flush design

Keylock switch 2 positions, round, IP65



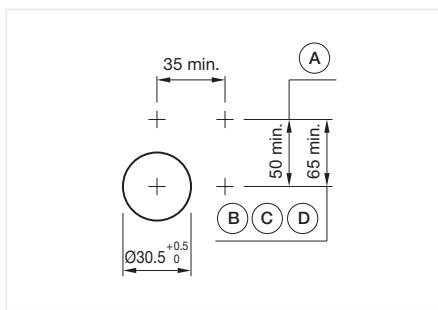
Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on
- The standard lock Ronis 251
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Actuator



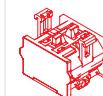
Anti-twist device



Pressure ring



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

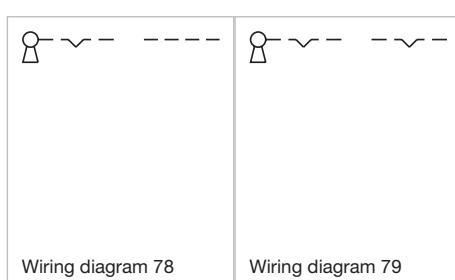


Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|---------------------------|--------------------|----------------------|-----------------|-------------|----------------|
| Rest - Maintained (a) | Nature | Aluminium | 90° right | 704.120.018 | 79 |
| Rest (a) - Maintained | Nature | Aluminium | 90° right | 704.121.018 | 79 |
| Rest (a) - Maintained (a) | Nature | Aluminium | 90° right | 704.122.018 | 79 |
| Rest (a) - Momentary | Nature | Aluminium | 42° right | 704.123.018 | 78 |

a = Key remove

Wiring diagrams



Wiring diagram 78

Wiring diagram 79

Keylock switch 3 positions, square, IP65

Equipment consisting of (schematic overview)



Actuator



Press frame



Bayonet flange

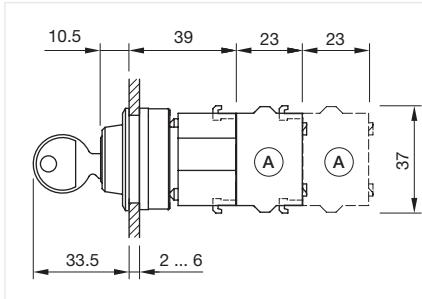
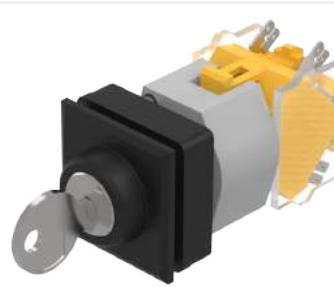


Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

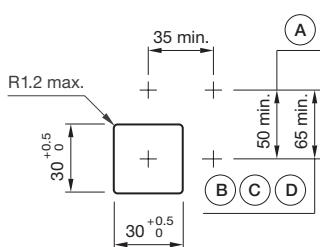
To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

General information

- Max. 3 switching elements can be clipped on
- The standard lock Ronis 251



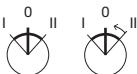
Mounting cut-outs [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

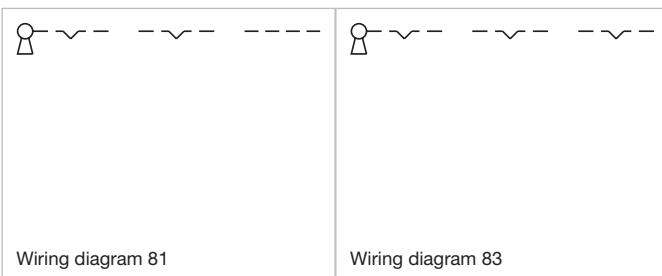


Actuator, Front dimension 35 mm x 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--|--------------------|----------------------|----------------------|-------------|----------------|
| Maintained (a) - Rest - Maintained (a) | Black | Plastic | 42° left / 42° right | 704.336.000 | 83 |
| Maintained (a) - Rest (a) - Momentary | Black | Plastic | 42° left / 42° right | 704.344.000 | 81 |

a = Key remove

Wiring diagrams



04 Flush design

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03
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<https://www.youtube.com/user/eaoswitches>

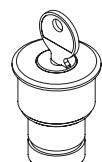
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Keylock switch 3 positions, round, IP65

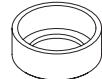
Equipment consisting of (schematic overview)



Actuator



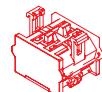
Anti-twist device



Pressure ring



Bayonet flange

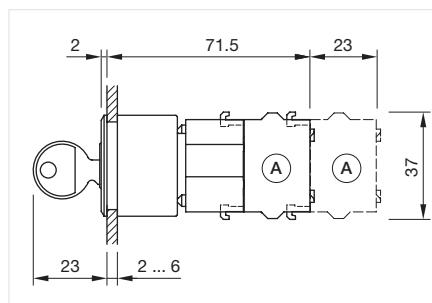


Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

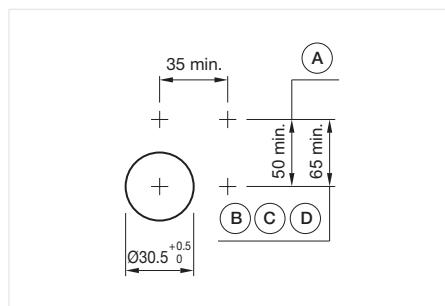
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
A = Screw terminal



Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on
- The standard lock Ronis 251
- The colour of anodised aluminium parts can vary due to technical production reasons



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--|--------------------|----------------------|----------------------|-------------|----------------|
| Maintained (a) - Rest (a) - Maintained (a) | Nature | Aluminium | 90° left / 90° right | 704.113.018 | 83 |
| Maintained - Rest (a) - Maintained | Nature | Aluminium | 42° left / 42° right | 704.114.018 | 83 |
| Momentary - Rest (a) - Momentary | Nature | Aluminium | 42° left / 42° right | 704.115.018 | 82 |
| Maintained (a) - Rest - Maintained (a) | Nature | Aluminium | 42° left / 42° right | 704.116.018 | 83 |
| Maintained (a) - Rest - Momentary | Nature | Aluminium | 42° left / 42° right | 704.117.018 | 81 |
| Momentary - Rest (a) - Maintained | Nature | Aluminium | 42° left / 42° right | 704.118.018 | 80 |
| Maintained (a) - Rest (a) - Momentary | Nature | Aluminium | 42° left / 42° right | 704.124.018 | 81 |

a = Key remove

Wiring diagrams



Wiring diagram 80



Wiring diagram 81



Wiring diagram 82



Wiring diagram 83

04 Flush design

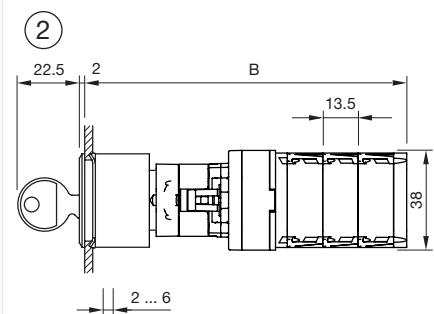
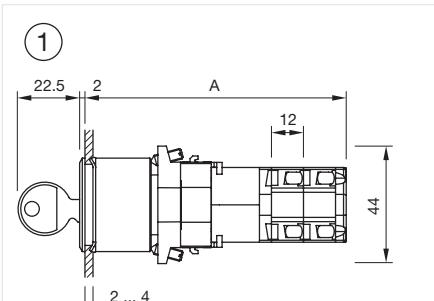
Keylock rotary switch, IP65



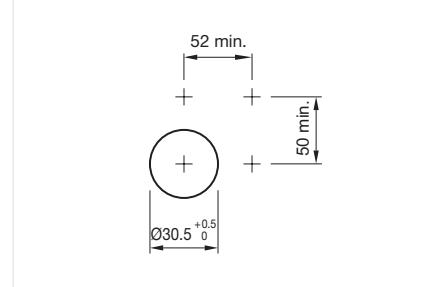
Product can differ from the current configuration.

General information

- The standard lock Ronis 251
- The colour of anodised aluminium parts can vary due to technical production reasons



Dimensions [mm]
1 = Kraus & Naimer switching element
A = (Number of stages x 12) + 66,5 mm
2 = Santon switching element
B = (Number of stages x 13,5) + 65,5 mm



Mounting cut-outs [mm]



Actuator, Front dimension Ø 35 mm

| Switching action | Front bezel colour | Front bezel material | Switching positions | Part No. |
|-----------------------|--------------------|----------------------|---------------------|---------------|
| Maintained - Rest (a) | Nature | Aluminium | Rest = 12 o'clock | 704.123.018KN |
| | Nature | Aluminium | Rest = 9 o'clock | 704.123.118KN |

a = Key remove

Equipment consisting of (schematic overview)



Actuator



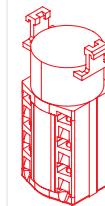
Anti-twist device



Pressure ring



Bayonet flange



Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Key-insert switch 2 positions , IP67

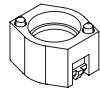
Equipment consisting of (schematic overview)



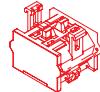
Actuator



Fixing nut



Bayonet flange

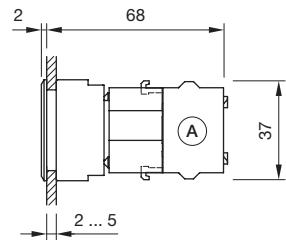


Switching element

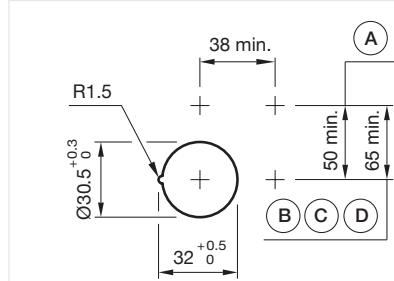
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

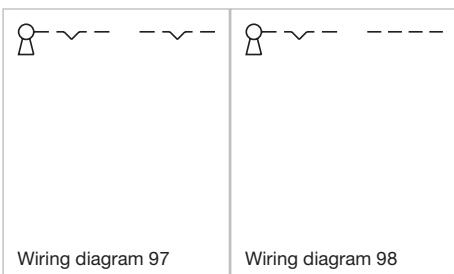
Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Actuator, Front dimension Ø 38 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|--------------|----------------|
| Rest - Maintained | Nature | Stainless steel | 90° right | 704.101.0x28 | 97 |
| Rest - Momentary | Nature | Stainless steel | 45° left | 704.103.0x28 | 98 |

Wiring diagrams

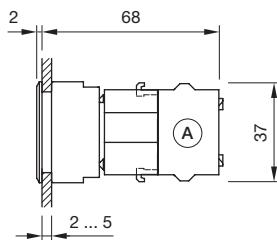


Wiring diagram 97

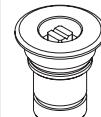
Wiring diagram 98

04 Flush design

Key-insert switch 3 positions, IP67



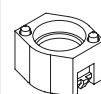
Equipment consisting of (schematic overview)



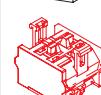
Actuator



Fixing nut



Bayonet flange



Switching element

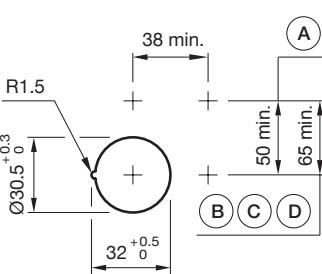
Page 213

Product can differ from the current configuration.

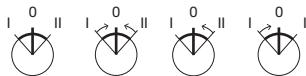
General information

- Max. 3 switching elements can be clipped on
- In the Part-No. „x“ stands for not defined actuator

Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension Ø 38 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|--------------|----------------|
| Maintained - Rest - Maintained | Nature | Stainless steel | 45° left / 45° right | 704.093.0x28 | 99 |
| Momentary - Rest - Momentary | Nature | Stainless steel | 45° left / 45° right | 704.095.0x28 | 100 |
| Maintained - Rest - Momentary | Nature | Stainless steel | 45° left / 45° right | 704.097.0x28 | 101 |
| Momentary - Rest - Maintained | Nature | Stainless steel | 45° left / 45° right | 704.099.0x28 | 102 |

Wiring diagrams

| | | | |
|-------------------|--------------------|--------------------|--------------------|
| | | | |
| Wiring diagram 99 | Wiring diagram 100 | Wiring diagram 101 | Wiring diagram 102 |

Key-insert switch 3 positions, conductor switch, IP67

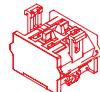
Equipment consisting of (schematic overview)



Actuator



Actuator

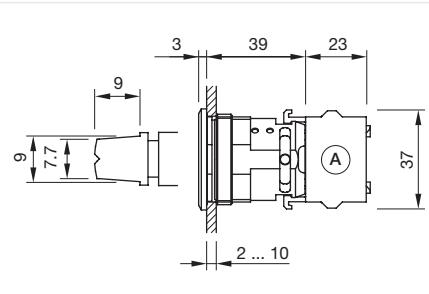


Switching element

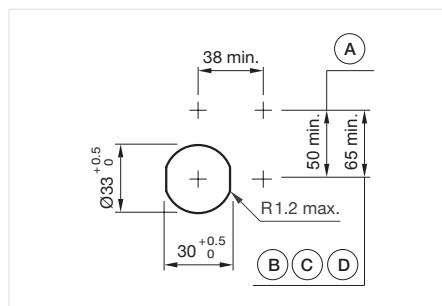
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

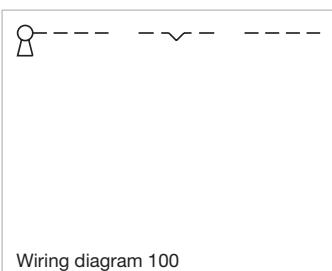
Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Actuator, Front dimension Ø 38 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|------------------------------|--------------------|----------------------|----------------------|--------------|----------------|
| Momentary - Rest - Momentary | Nature | Stainless steel | 42° left / 42° right | 704.095.0T28 | 100 |

Wiring diagrams



Wiring diagram 100

04 Flush design

Lever switch, IP54



Product can differ from the current configuration.

General information

- For all units are the levers 02 (black), 03, 04, 05, 06 (yellow) 13, 14, 15 and 16 available (levers 6 + 16 according UIC 612). Special levers on request
- Front bezel can also be delivered in black version
- Functions and properties, including lever style and switching positions of the lever switch are being produced according to customer specifications. Please contact your local EAO Sales Office
- Micro-switch contacts: The micro-switch is available with a silver contact or a gold plated silver contact. Contact without positive opening operation is used in the lever switches S41, S42 and S43
- Each lever switch includes a maximum of five micro-switches. Contact with positive opening operation is used in the lever switches S44 and S45. Each lever switch includes a maximum of four micro-switches



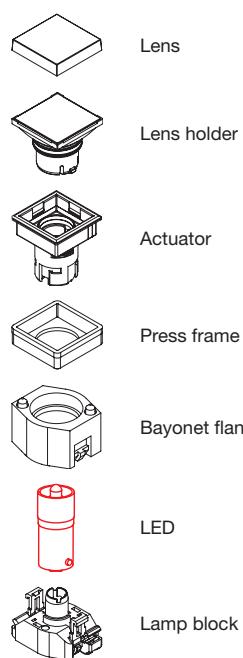
Actuator, Front dimension Ø 40 mm

| Product attributes | Front bezel colour | Front bezel material | Front bezel surface | Switching system | Contacts | Part No. |
|---|--------------------|----------------------|---------------------|-------------------------------|-------------|-------------|
| S41: Cage clamp 1.0 mm ... 1.5 mm ² , 1 contact element | Nature | Aluminium | anodised | Snap-action switching element | 1 NC / 1 NO | 704.151.XXX |
| S42: JST connector max. 0.2 mm ² (counter plug is supplied), 1 contact element | Nature | Aluminium | anodised | Snap-action switching element | 1 NC / 1 NO | 704.152.XXX |
| S43: Plug-in terminal 6.3 mm x 0.8 mm, 1 contact element | Nature | Aluminium | anodised | Snap-action switching element | 1 NC / 1 NO | 704.153.XXX |
| S44: Cage clamp 1.0 mm ... 1.5 mm ² , 1 contact element positive open | Nature | Aluminium | anodised | Snap-action switching element | 1 NC / 1 NO | 704.154.XXX |
| S45: Screw terminal or plug-in terminal 6.3 mm x 0.8 mm, 1 contact element positive open | Nature | Aluminium | anodised | Snap-action switching element | 1 NC / 1 NO | 704.155.XXX |

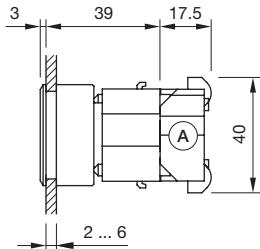
Contacts: NC = Normally closed, NO = Normally open

Indicator square, IP65

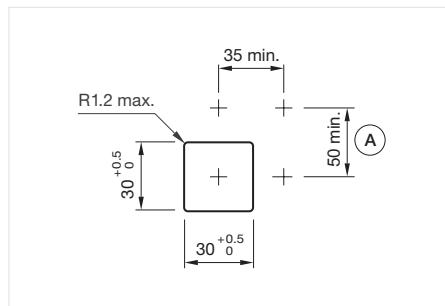
Equipment consisting of (schematic overview)



Page 204

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 35 mm x 35 mm

| Housing colour | Housing material | Lens colour | Front bezel colour | Front bezel material | Marking plate colour | Marking plate optics | Part No. | Wiring diagram |
|----------------|------------------|-------------|--------------------|----------------------|----------------------|----------------------|-------------|----------------|
| Black | Plastic | Red | Silver | Plastic | White | translucent | 704.202.208 | 4 |
| | Plastic | Yellow | Silver | Plastic | White | translucent | 704.202.408 | 4 |
| | Plastic | Green | Silver | Plastic | White | translucent | 704.202.508 | 4 |
| | Plastic | Blue | Silver | Plastic | White | translucent | 704.202.608 | 4 |
| | Plastic | Colourless | Silver | Plastic | White | translucent | 704.202.708 | 4 |
| | Plastic | Red | Black | Plastic | White | translucent | 704.206.200 | 4 |
| | Plastic | Yellow | Black | Plastic | White | translucent | 704.206.400 | 4 |
| | Plastic | Green | Black | Plastic | White | translucent | 704.206.500 | 4 |
| | Plastic | Blue | Black | Plastic | White | translucent | 704.206.600 | 4 |
| | Plastic | Colourless | Black | Plastic | White | translucent | 704.206.700 | 4 |

Wiring diagrams

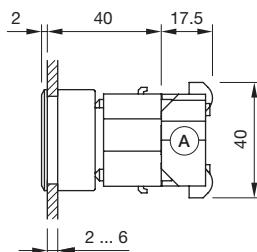


Wiring diagram 4

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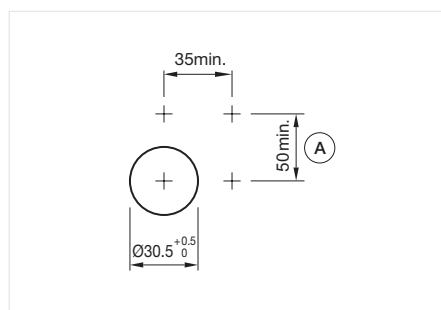
04 Flush design

Indicator round, IP65



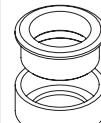
Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal

Equipment consisting of (schematic overview)



Front bezel set



Lens



Marking Plate



Actuator

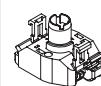


Bayonet flange



LED

Page 204



Lamp block

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Housing colour | Housing material | Lens colour | Front bezel colour | Front bezel material | Front bezel surface | Part No. | Wiring diagram |
|----------------|------------------|-------------|--------------------|----------------------|---------------------|-------------|----------------|
| Grey | Plastic | Red | Nature | Aluminium | anodised | 704.006.218 | 4 |
| | Plastic | Yellow | Nature | Aluminium | anodised | 704.006.418 | 4 |
| | Plastic | Green | Nature | Aluminium | anodised | 704.006.518 | 4 |
| | Plastic | Blue | Nature | Aluminium | anodised | 704.006.618 | 4 |
| | Plastic | Colourless | Nature | Aluminium | anodised | 704.006.718 | 4 |

Wiring diagrams



Wiring diagram 4

Indicator square, IP65

Equipment consisting of (schematic overview)



Lens

Page 199



Lens holder

Page 201



Actuator



Press frame



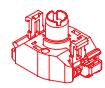
Bayonet flange

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LED

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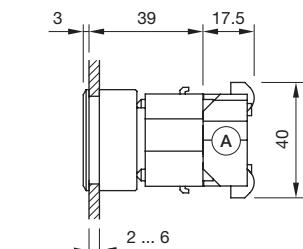


Lamp block

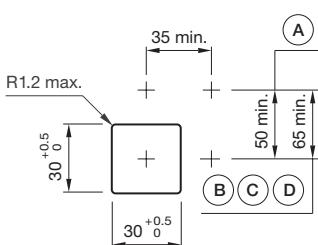
Page 210

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



Mounting cut-outs [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

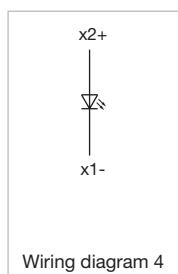
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 35 mm x 35 mm

| Housing colour | Housing material | Front bezel colour | Front bezel material | Part No. | Wiring diagram |
|----------------|------------------|--------------------|----------------------|-----------|----------------|
| Black | Plastic | Black | Plastic | 704.743.0 | 4 |
| | Plastic | Silver | Plastic | 704.743.8 | 4 |

Wiring diagrams



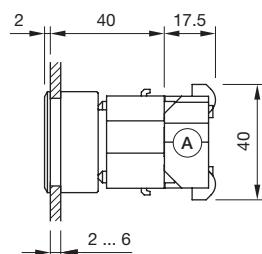
Wiring diagram 4

04 Flush design

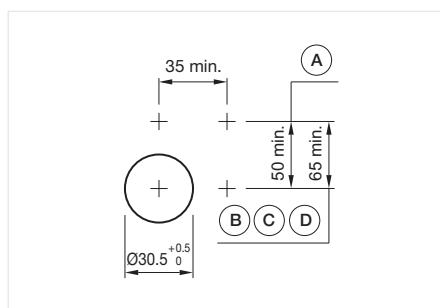
Indicator round, IP65



Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Front bezel set

Page 202



Lens

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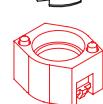


Marking Plate

Page 201



Actuator



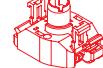
Bayonet flange

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LED

Page 204



Lamp block

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Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 35 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Grey | Plastic | 704.633.1 | 4 |

Wiring diagrams



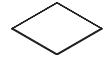
Wiring diagram 4

Flasher without LED square, IP65

Equipment consisting of (schematic overview)



Lens



Marking foil



Lens holder



Actuator



Press frame

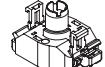


Bayonet flange



LED

Page 204



Lamp block

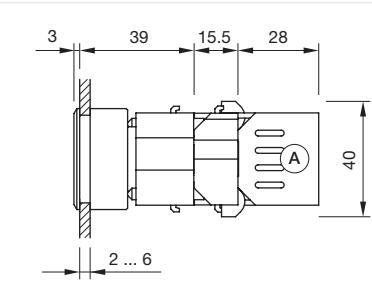


Flasher element

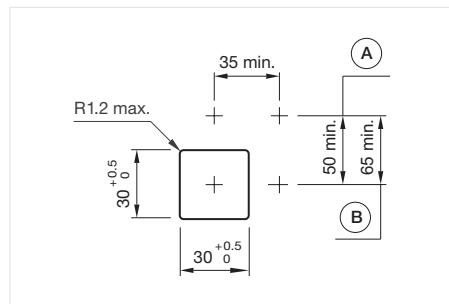
Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

Actuator, Front dimension 35 mm x 35 mm

| Housing colour | Housing material | Lens colour | Front bezel colour | Front bezel material | Marking plate colour | Marking plate optics | Part No. | Wiring diagram |
|----------------|------------------|-------------|--------------------|----------------------|----------------------|----------------------|-------------|----------------|
| Black | Plastic | Red | Silver | Plastic | White | translucent | 704.202.208 | 4 |
| | Plastic | Yellow | Silver | Plastic | White | translucent | 704.202.408 | 4 |
| | Plastic | Green | Silver | Plastic | White | translucent | 704.202.508 | 4 |
| | Plastic | Blue | Silver | Plastic | White | translucent | 704.202.608 | 4 |
| | Plastic | Colourless | Silver | Plastic | White | translucent | 704.202.708 | 4 |
| | Plastic | Red | Black | Plastic | White | translucent | 704.206.200 | 4 |
| | Plastic | Yellow | Black | Plastic | White | translucent | 704.206.400 | 4 |
| | Plastic | Green | Black | Plastic | White | translucent | 704.206.500 | 4 |
| | Plastic | Blue | Black | Plastic | White | translucent | 704.206.600 | 4 |
| | Plastic | Colourless | Black | Plastic | White | translucent | 704.206.700 | 4 |

04 Flush design

Wiring diagrams



Wiring diagram 4



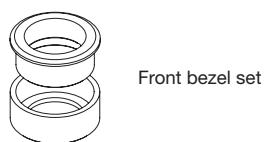
[As a successful company with production sites around the world, EAO is actively committed to the effective implementation of a sustainable environmental policy.](#)

We act responsibly. In our environmental focus, we set benchmarks for ourselves, our products and our customers. Throughout our entire value chain, we think and work in a way that is resource-efficient and environmentally-friendly. When selecting our components and raw materials, we ensure that we have partnerships in place with certified manufacturers and that we adhere to EC guidelines on hazardous materials (RoHS).

e a o

Flasher without LED round, IP65

Equipment consisting of (schematic overview)



Front bezel set



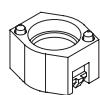
Lens



Marking Plate



Actuator

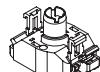


Bayonet flange



LED

Page 204



Lamp block

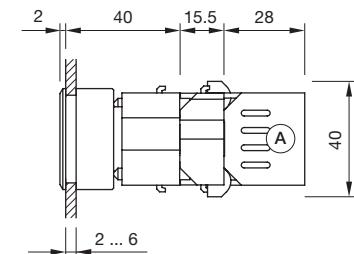


Flasher element

Page 235

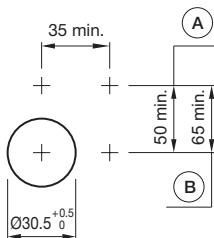
Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)



Actuator, Front dimension Ø 35 mm

| Housing colour | Housing material | Lens colour | Front bezel colour | Front bezel material | Front bezel surface | Part No. | Wiring diagram |
|----------------|------------------|-------------|--------------------|----------------------|---------------------|-------------|----------------|
| Grey | Plastic | Red | Nature | Aluminium | anodised | 704.006.218 | 4 |
| | Plastic | Yellow | Nature | Aluminium | anodised | 704.006.418 | 4 |
| | Plastic | Green | Nature | Aluminium | anodised | 704.006.518 | 4 |
| | Plastic | Blue | Nature | Aluminium | anodised | 704.006.618 | 4 |
| | Plastic | Colourless | Nature | Aluminium | anodised | 704.006.718 | 4 |

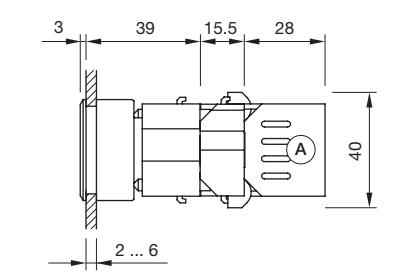
Wiring diagrams



Wiring diagram 4

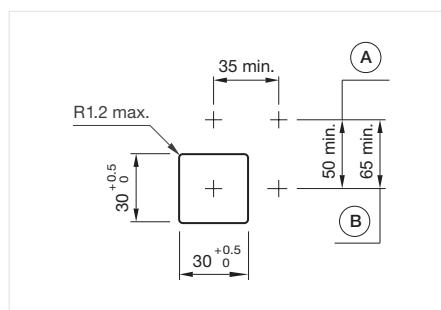
04 Flush design

Flasher square, IP65



Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

Equipment consisting of (schematic overview)



Lens

Page 199

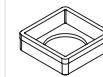


Lens holder

Page 201



Actuator



Press frame



Bayonet flange

Page 203



LED

Page 204



Lamp block

Page 210



Flasher element

Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

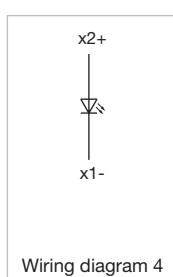
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 35 mm x 35 mm

| Housing colour | Housing material | Front bezel colour | Front bezel material | Part No. | Wiring diagram |
|----------------|------------------|--------------------|----------------------|-----------|----------------|
| Black | Plastic | Black | Plastic | 704.743.0 | 4 |
| | Plastic | Silver | Plastic | 704.743.8 | 4 |

Wiring diagrams



Wiring diagram 4

Flasher round, IP65

Equipment consisting of (schematic overview)



Front bezel set Page 202



Lens Page 199



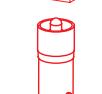
Marking Plate Page 201



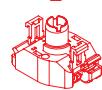
Actuator



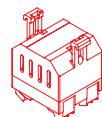
Bayonet flange Page 203



LED Page 204



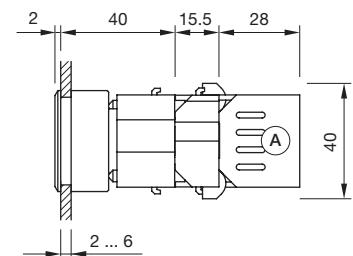
Lamp block Page 210



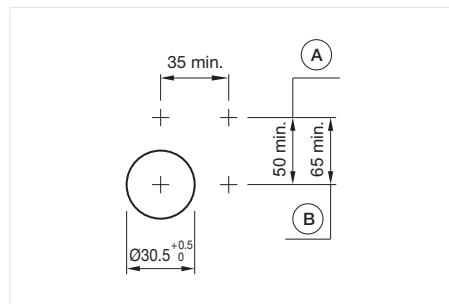
Flasher element Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

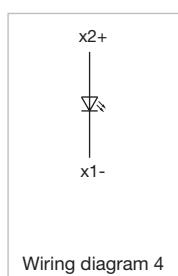
Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

Actuator, Front dimension Ø 35 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Grey | Plastic | 704.633.1 | 4 |

Wiring diagrams



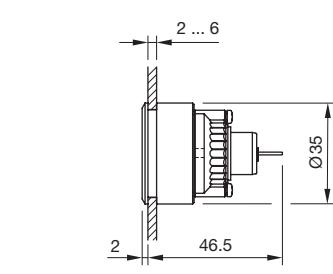
Wiring diagram 4

04 Flush design

01 Buzzer, IP40



Product can differ from the current configuration.

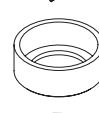


Dimensions [mm]

Equipment consisting of (schematic overview)



Actuator



Pressure ring

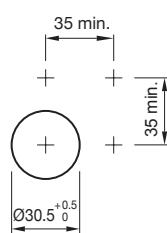


Fixing nut

Each Part Number listed below includes all the black components shown in the 3D-drawing.

14 General information

- Further information see Technical data



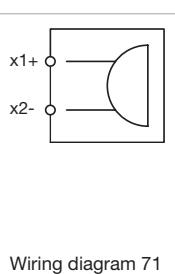
Mounting cut-outs [mm]



41 Actuator, Front dimension Ø 35 mm

| Terminal | Operating voltage | Front cap colour | Front cap material | Front cap surface | Part No. | Wiring diagram |
|------------------|-------------------|------------------|--------------------|-------------------|------------|----------------|
| Plug-in terminal | 24 V DC | Black | Aluminium | anodised | 14-810.910 | 71 |
| | 24 V DC | Nature | Aluminium | anodised | 14-810.918 | 71 |

51 Wiring diagrams



Wiring diagram 71

Potentiometer, IP65

Equipment consisting of (schematic overview)



Lever

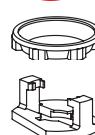


Actuator



Front bezel set

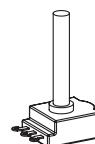
Page 202



Fixing nut



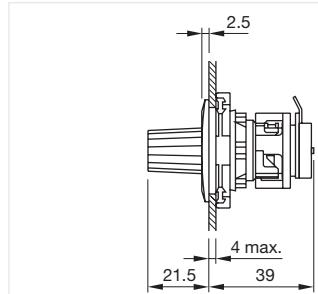
Mounting



Potentiometer

Each Part Number listed below includes all the black components shown in the 3D-drawing.

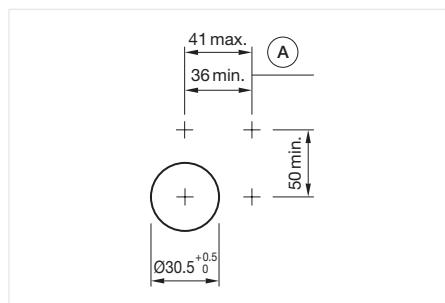
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Action range of aligning pins

General information

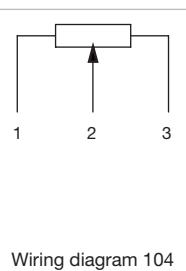
- For front dimensions 36 mm x 36 mm, Ø 36 mm



Actuator, Front dimension Ø 36 mm

| Housing material | Front bezel colour | Front bezel material | Front bezel surface | Resistance | Part No. | Wiring diagram |
|--|--------------------|----------------------|---------------------|------------|----------------|----------------|
| Plastic | | Metal | matt chrome | 10 kOhm | 44-745.20-10K1 | 104 |
| | Matt grey | Plastic | | 10 kOhm | 44-745.60-10K1 | 104 |
| Without potentiometer, specification for potentiometer: Shaft = length 32 mm, shaft end = Form A, Ø = 6 mm | | Metal | matt chrome | | 44-744.20 | |
| | Matt grey | Plastic | | | 44-744.60 | |

Wiring diagrams



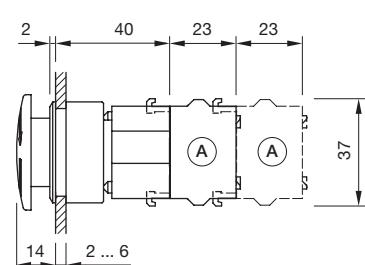
Wiring diagram 104

04 Flush design

Stop switch, IP65



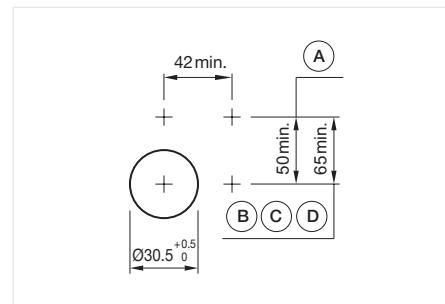
Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on
- Twist to unlock clockwise



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



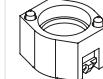
Actuator



Anti-twist device



Pressure ring



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 40 mm

| Switching action | Lens colour | Front bezel colour | Front bezel material | Front bezel surface | Marking | Part No. | Wiring diagram |
|------------------|-------------|--------------------|----------------------|---------------------|---------|-------------|----------------|
| Maintained | Red | Black | Aluminium | anodised | Arrows | 704.074.210 | 76 |
| | Red | Nature | Aluminium | anodised | Arrows | 704.075.218 | 76 |
| | Red | Black | Aluminium | anodised | Stop | 704.075.310 | 76 |
| | Red | Nature | Aluminium | anodised | Stop | 704.075.318 | 76 |

Wiring diagrams



Wiring diagram 76

Pushbutton square, IP67

Equipment consisting of (schematic overview)



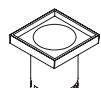
Front bezel



Lens



Lens holder



Actuator

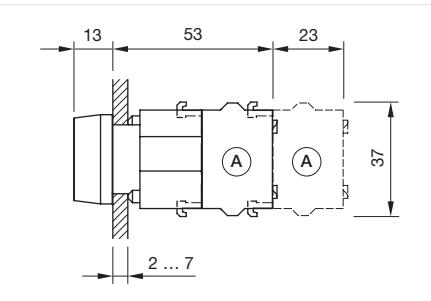
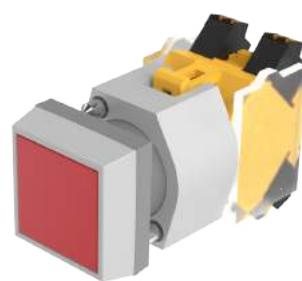


Bayonet flange



Switching element

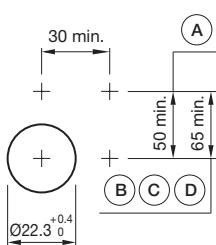
Page 213

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Front bezel colour | Front bezel material | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|-------------|---------------|----------------|------------------|-----------|----------------|
| Momentary | Black | Plastic | Black | Plastic | Black | Plastic | 704.209.0 | 72 |
| | Black | Plastic | Red | Plastic | Black | Plastic | 704.209.2 | 72 |
| | Black | Plastic | Yellow | Plastic | Black | Plastic | 704.209.4 | 72 |
| | Black | Plastic | Green | Plastic | Black | Plastic | 704.209.5 | 72 |
| | Black | Plastic | Blue | Plastic | Black | Plastic | 704.209.6 | 72 |
| | Black | Plastic | Colourless | Plastic | Black | Plastic | 704.209.7 | 72 |
| | Grey | Plastic | Black | Plastic | Black | Plastic | 704.210.0 | 72 |
| | Grey | Plastic | Red | Plastic | Black | Plastic | 704.210.2 | 72 |
| | Grey | Plastic | Yellow | Plastic | Black | Plastic | 704.210.4 | 72 |
| | Grey | Plastic | Green | Plastic | Black | Plastic | 704.210.5 | 72 |
| | Grey | Plastic | Blue | Plastic | Black | Plastic | 704.210.6 | 72 |
| | Grey | Plastic | Colourless | Plastic | Black | Plastic | 704.210.7 | 72 |
| Maintained | Black | Plastic | Black | Plastic | Black | Plastic | 704.239.0 | 73 |
| | Black | Plastic | Red | Plastic | Black | Plastic | 704.239.2 | 73 |
| | Grey | Plastic | Green | Plastic | Black | Plastic | 704.240.5 | 73 |
| | Grey | Plastic | Colourless | Plastic | Black | Plastic | 704.240.7 | 73 |

04 Raised design

Wiring diagrams

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Wiring diagram 72

Wiring diagram 73



Modern. Tactile and long-lasting.
Series 04 illuminated selector switches.

Intuitive and reliable operation for enhanced safety in public transportation.

- Bright, single or bi-colour LED illumination
- Modern, ergonomic design
- Rounded edges (in accordance with DIN 5566-1)
- Excellent tactile feedback
- Long service life and robust construction
- Wide range of possible combinations and options

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Pushbutton round

Equipment consisting of (schematic overview)



Front bezel



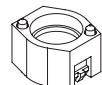
Lens



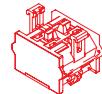
Marking Plate



Actuator

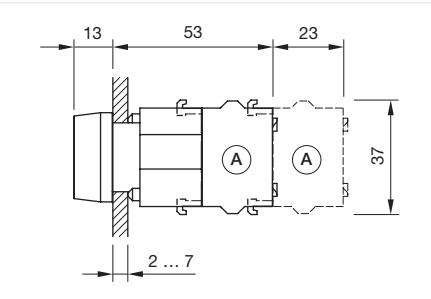


Bayonet flange



Switching element

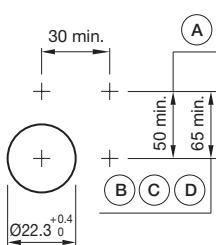
Page 213

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Front bezel surface | Lens colour | Lens material | Housing colour | Housing material | IP front protection | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|---------------------|-------------|---------------|----------------|------------------|---------------------|-----------|----------------|
| Momentary | Black | Plastic | | Black | Plastic | Grey | Plastic | IP65 | 704.009.0 | 72 |
| | Black | Plastic | | Red | Plastic | Grey | Plastic | IP65 | 704.009.2 | 72 |
| | Black | Plastic | | Yellow | Plastic | Grey | Plastic | IP65 | 704.009.4 | 72 |
| | Black | Plastic | | Green | Plastic | Grey | Plastic | IP65 | 704.009.5 | 72 |
| | Black | Plastic | | Blue | Plastic | Grey | Plastic | IP65 | 704.009.6 | 72 |
| | Black | Plastic | | Colour-less | Plastic | Grey | Plastic | IP65 | 704.009.7 | 72 |
| | Grey | Plastic | | Black | Plastic | Grey | Plastic | IP65 | 704.010.0 | 72 |
| | Grey | Plastic | | Red | Plastic | Grey | Plastic | IP65 | 704.010.2 | 72 |
| | Grey | Plastic | | Yellow | Plastic | Grey | Plastic | IP65 | 704.010.4 | 72 |
| | Grey | Plastic | | Green | Plastic | Grey | Plastic | IP65 | 704.010.5 | 72 |
| | Grey | Plastic | | Blue | Plastic | Grey | Plastic | IP65 | 704.010.6 | 72 |
| | Grey | Plastic | | Colour-less | Plastic | Grey | Plastic | IP65 | 704.010.7 | 72 |
| | Nature | Aluminium | anodised | Black | Aluminium | Grey | Plastic | IP65 | 704.011.0 | 72 |

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04 Raised design

| Switching action | Front bezel colour | Front bezel material | Front bezel surface | Lens colour | Lens material | Housing colour | Housing material | IP front protection | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|---------------------|-------------|---------------|----------------|------------------|---------------------|-----------|----------------|
| Momentary | Nature | Aluminium | anodised | Red | Aluminium | Grey | Plastic | IP65 | 704.011.2 | 72 |
| | Nature | Aluminium | anodised | Gold | Aluminium | Grey | Plastic | IP65 | 704.011.4 | 72 |
| | Nature | Aluminium | anodised | Olive green | Aluminium | Grey | Plastic | IP65 | 704.011.5 | 72 |
| | Nature | Aluminium | anodised | Blue | Aluminium | Grey | Plastic | IP65 | 704.011.6 | 72 |
| | Nature | Aluminium | anodised | Nature | Aluminium | Grey | Plastic | IP65 | 704.011.8 | 72 |
| | Nature | Aluminium | anodised | Black | Plastic | Grey | Plastic | IP65 | 704.012.0 | 72 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | IP65 | 704.012.2 | 72 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | IP65 | 704.012.4 | 72 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | IP65 | 704.012.5 | 72 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | IP65 | 704.012.6 | 72 |
| | Nature | Aluminium | anodised | Colourless | Plastic | Grey | Plastic | IP65 | 704.012.7 | 72 |
| Maintained | Black | Plastic | | Black | Plastic | Grey | Plastic | IP65 | 704.039.0 | 73 |
| | Black | Plastic | | Red | Plastic | Grey | Plastic | IP65 | 704.039.2 | 73 |
| | Black | Plastic | | Colourless | Plastic | Grey | Plastic | IP65 | 704.039.7 | 73 |
| | Grey | Plastic | | Red | Plastic | Grey | Plastic | IP65 | 704.040.2 | 73 |
| | Grey | Plastic | | Yellow | Plastic | Grey | Plastic | IP65 | 704.040.4 | 73 |
| | Grey | Plastic | | Green | Plastic | Grey | Plastic | IP65 | 704.040.5 | 73 |
| | Grey | Plastic | | Blue | Plastic | Grey | Plastic | IP65 | 704.040.6 | 73 |
| | Grey | Plastic | | Colourless | Plastic | Grey | Plastic | IP65 | 704.040.7 | 73 |
| | Nature | Aluminium | anodised | Black | Aluminium | Grey | Plastic | IP65 | 704.041.0 | 73 |
| | Nature | Aluminium | anodised | Red | Aluminium | Grey | Plastic | IP65 | 704.041.2 | 73 |
| | Nature | Aluminium | anodised | Olive green | Aluminium | Grey | Plastic | IP65 | 704.041.5 | 73 |
| | Nature | Aluminium | anodised | | Aluminium | Grey | Plastic | IP65 | 704.041.6 | 73 |
| | Nature | Aluminium | anodised | Black | Plastic | Grey | Plastic | IP65 | 704.042.0 | 73 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | IP65 | 704.042.2 | 73 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | IP65 | 704.042.4 | 73 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | IP65 | 704.042.5 | 73 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | IP65 | 704.042.6 | 73 |
| | Nature | Aluminium | anodised | Colourless | Plastic | Grey | Plastic | IP65 | 704.042.7 | 73 |
| Momentary | Nature | Aluminium | anodised | Black | Plastic | Grey | Plastic | IP67 | 704.013.0 | 72 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | IP67 | 704.013.2 | 72 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | IP67 | 704.013.4 | 72 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | IP67 | 704.013.5 | 72 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | IP67 | 704.013.6 | 72 |
| | Nature | Aluminium | anodised | Colourless | Plastic | Grey | Plastic | IP67 | 704.013.7 | 72 |
| Maintained | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | IP67 | 704.043.2 | 73 |
| | Nature | Aluminium | anodised | Colourless | Plastic | Grey | Plastic | IP67 | 704.043.7 | 73 |

Wiring diagrams

| | |
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| E--- | E~ - |
| Wiring diagram 72 | Wiring diagram 73 |

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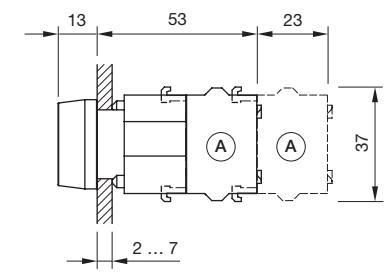
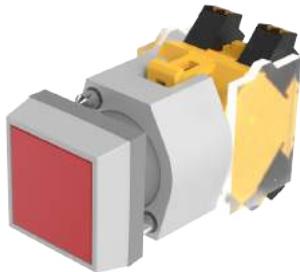
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04 Raised design

Pushbutton square, IP65

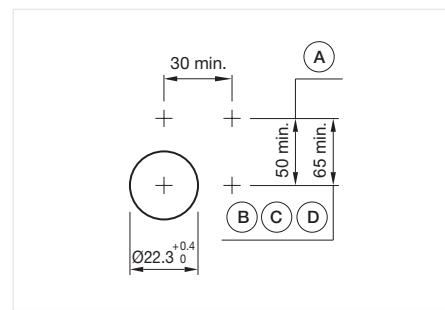


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Front bezel

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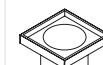
Lens

Page 199



Lens holder

Page 201



Actuator



Bayonet flange

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Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|----------------|------------------|-----------|----------------|
| Momentary | Black | Plastic | 704.731.0 | 72 |
| | Grey | Plastic | 704.731.1 | 72 |
| Maintained | Black | Plastic | 704.732.0 | 73 |
| | Grey | Plastic | 704.732.1 | 73 |

Wiring diagrams



Wiring diagram 72



Wiring diagram 73

Pushbutton round, IP65

Equipment consisting of (schematic overview)



Front bezel

Page 202



Lens

Page 199

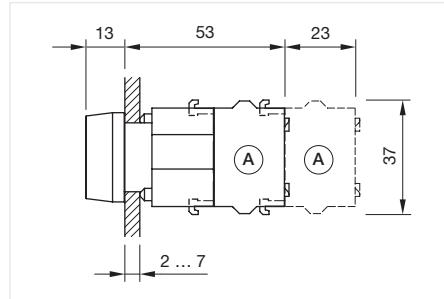


Marking Plate

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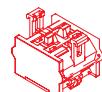


Actuator

Dimensions [mm]
A = Screw terminal

Bayonet flange

Page 203



Switching element

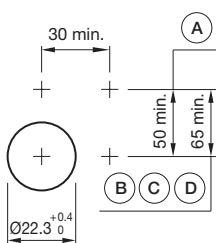
Page 213



Product can differ from the current configuration.

General information

- Frontring with protective cover to be mounted with a torque of 0.4 Nm onto actuator
- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

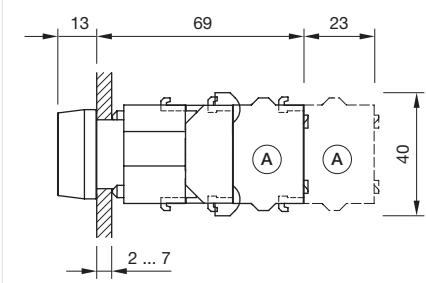
| Switching action | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|----------------|------------------|-----------|----------------|
| Momentary | Grey | Plastic | 704.631.1 | 72 |
| Maintained | Grey | Plastic | 704.632.1 | 73 |

Wiring diagrams

| | |
|-------------------|-------------------|
| | |
| Wiring diagram 72 | Wiring diagram 73 |

04 Raised design

Illuminated pushbutton square, IP65

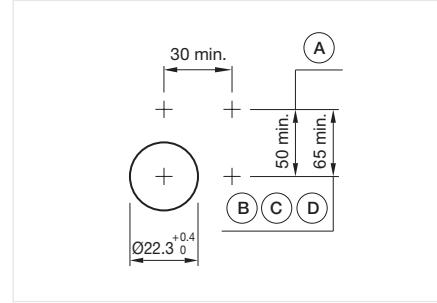


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



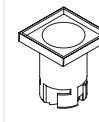
Front bezel



Lens



Lens holder



Actuator



Bayonet flange



LED

Page 204



Lamp block



Switching element

Page 213

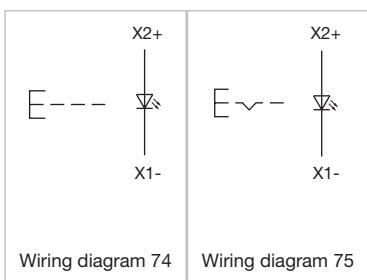
Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

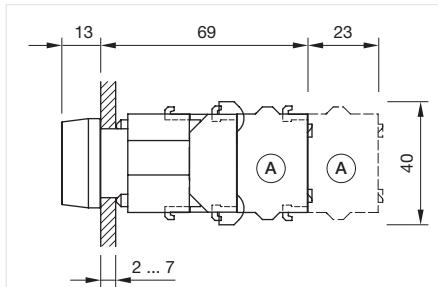
| Switching action | Front bezel colour | Front bezel material | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|-------------|---------------|----------------|------------------|-----------|----------------|
| Momentary | Black | Plastic | Red | Plastic | Black | Plastic | 704.229.2 | 74 |
| | Black | Plastic | Yellow | Plastic | Black | Plastic | 704.229.4 | 74 |
| | Black | Plastic | Green | Plastic | Black | Plastic | 704.229.5 | 74 |
| | Black | Plastic | Blue | Plastic | Black | Plastic | 704.229.6 | 74 |
| | Black | Plastic | Colourless | Plastic | Black | Plastic | 704.229.7 | 74 |
| | Grey | Plastic | Red | Plastic | Black | Plastic | 704.230.2 | 74 |
| | Grey | Plastic | Yellow | Plastic | Black | Plastic | 704.230.4 | 74 |
| | Grey | Plastic | Green | Plastic | Black | Plastic | 704.230.5 | 74 |
| | Grey | Plastic | Blue | Plastic | Black | Plastic | 704.230.6 | 74 |
| | Grey | Plastic | Colourless | Plastic | Black | Plastic | 704.230.7 | 74 |
| Maintained | Black | Plastic | Red | Plastic | Black | Plastic | 704.259.2 | 75 |
| | Black | Plastic | Yellow | Plastic | Black | Plastic | 704.259.4 | 75 |
| | Black | Plastic | Green | Plastic | Black | Plastic | 704.259.5 | 75 |
| | Black | Plastic | Blue | Plastic | Black | Plastic | 704.259.6 | 75 |
| | Black | Plastic | Colourless | Plastic | Black | Plastic | 704.259.7 | 75 |
| | Grey | Plastic | Red | Plastic | Black | Plastic | 704.260.2 | 75 |
| | Grey | Plastic | Yellow | Plastic | Black | Plastic | 704.260.4 | 75 |
| | Grey | Plastic | Green | Plastic | Black | Plastic | 704.260.5 | 75 |
| | Grey | Plastic | Blue | Plastic | Black | Plastic | 704.260.6 | 75 |
| | Grey | Plastic | Colourless | Plastic | Black | Plastic | 704.260.7 | 75 |

Wiring diagrams

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04 Raised design

Illuminated pushbutton round

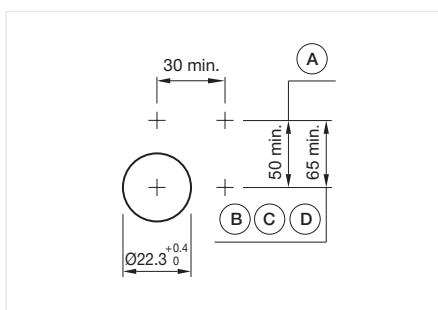


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Frontring with protective cover to be mounted with a torque of 0.4 Nm onto actuator
- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Front bezel



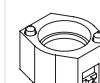
Lens



Marking Plate



Actuator

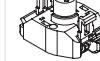


Bayonet flange

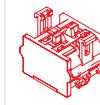


LED

Page 204



Lamp block



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

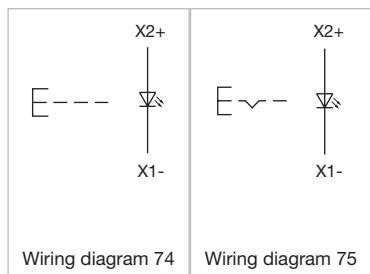


Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Front bezel surface | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|---------------------|-------------|---------------|----------------|------------------|-----------|----------------|
| Momentary | Black | Plastic | | Red | Plastic | Grey | Plastic | 704.029.2 | 74 |
| | Black | Plastic | | Yellow | Plastic | Grey | Plastic | 704.029.4 | 74 |
| | Black | Plastic | | Green | Plastic | Grey | Plastic | 704.029.5 | 74 |
| | Black | Plastic | | Blue | Plastic | Grey | Plastic | 704.029.6 | 74 |
| | Black | Plastic | | Colour-less | Plastic | Grey | Plastic | 704.029.7 | 74 |
| | Grey | Plastic | | Red | Plastic | Grey | Plastic | 704.030.2 | 74 |
| | Grey | Plastic | | Yellow | Plastic | Grey | Plastic | 704.030.4 | 74 |
| | Grey | Plastic | | Green | Plastic | Grey | Plastic | 704.030.5 | 74 |
| | Grey | Plastic | | Blue | Plastic | Grey | Plastic | 704.030.6 | 74 |
| | Grey | Plastic | | Colour-less | Plastic | Grey | Plastic | 704.030.7 | 74 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.032.2 | 74 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.032.4 | 74 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.032.5 | 74 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | 704.032.6 | 74 |
| | Nature | Aluminium | anodised | Colour-less | Plastic | Grey | Plastic | 704.032.7 | 74 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.033.2 | 74 |

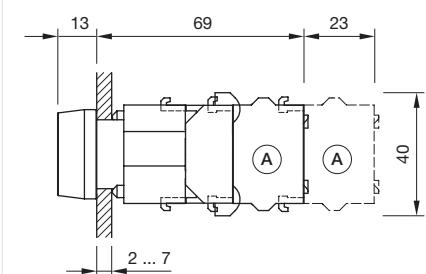
| Switching action | Front bezel colour | Front bezel material | Front bezel surface | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|---------------------|-------------|---------------|----------------|------------------|-----------|----------------|
| Momentary | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.033.4 | 74 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.033.5 | 74 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | 704.033.6 | 74 |
| | Nature | Aluminium | anodised | Colour-less | Plastic | Grey | Plastic | 704.033.7 | 74 |
| Maintained | Black | Plastic | | Red | Plastic | Grey | Plastic | 704.059.2 | 75 |
| | Black | Plastic | | Yellow | Plastic | Grey | Plastic | 704.059.4 | 75 |
| | Black | Plastic | | Green | Plastic | Grey | Plastic | 704.059.5 | 75 |
| | Black | Plastic | | Colour-less | Plastic | Grey | Plastic | 704.059.7 | 75 |
| | Grey | Plastic | | Red | Plastic | Grey | Plastic | 704.060.2 | 75 |
| | Grey | Plastic | | Yellow | Plastic | Grey | Plastic | 704.060.4 | 75 |
| | Grey | Plastic | | Green | Plastic | Grey | Plastic | 704.060.5 | 75 |
| | Grey | Plastic | | Blue | Plastic | Grey | Plastic | 704.060.6 | 75 |
| | Grey | Plastic | | Colour-less | Plastic | Grey | Plastic | 704.060.7 | 75 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.062.2 | 75 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.062.4 | 75 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.062.5 | 75 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | 704.062.6 | 75 |
| | Nature | Aluminium | anodised | Colour-less | Plastic | Grey | Plastic | 704.062.7 | 75 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.063.2 | 75 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.063.4 | 75 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.063.5 | 75 |
| | Nature | Aluminium | anodised | Blue | Plastic | Grey | Plastic | 704.063.6 | 75 |
| | Nature | Aluminium | anodised | Colour-less | Plastic | Grey | Plastic | 704.063.7 | 75 |

Wiring diagrams



04 Raised design

Illuminated pushbutton square, IP65

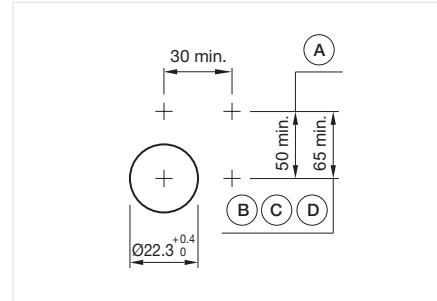


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Frontring with protective cover to be mounted with a torque of 0.4 Nm onto actuator
- Max. 3 switching elements can be clipped on



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)

| | | |
|--|-------------------|----------|
| | Front bezel | Page 202 |
| | Lens | Page 199 |
| | Lens holder | Page 201 |
| | Actuator | |
| | Bayonet flange | Page 203 |
| | LED | Page 204 |
| | Lamp block | Page 210 |
| | Switching element | Page 213 |

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|----------------|------------------|-----------|----------------|
| Momentary | Black | Plastic | 704.731.0 | 72 |
| | Grey | Plastic | 704.731.1 | 72 |
| Maintained | Black | Plastic | 704.732.0 | 73 |
| | Grey | Plastic | 704.732.1 | 73 |

Wiring diagrams

E---

E~--

Wiring diagram 72

Wiring diagram 73

Illuminated pushbutton round, IP65

Equipment consisting of (schematic overview)



Front bezel

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Lens

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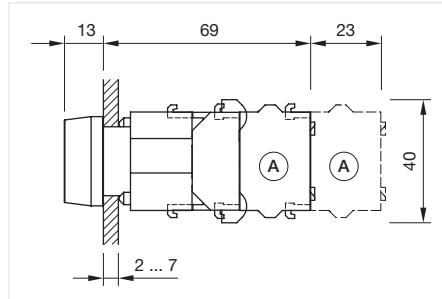


Marking Plate

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Actuator



Dimensions [mm]

A = Screw terminal



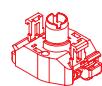
Bayonet flange

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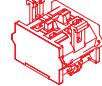
LED

Page 204



Lamp block

Page 210



Switching element

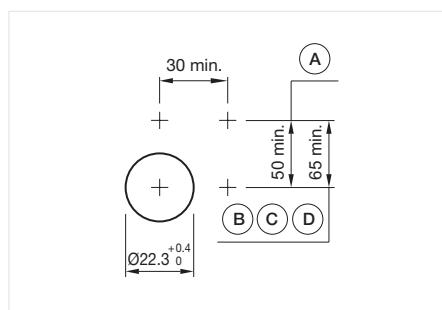
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.



Mounting cut-outs [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

General information

- Frontring with protective cover to be mounted with a torque of 0.4 Nm onto actuator
- Max. 3 switching elements can be clipped on



Actuator, Front dimension Ø 29 mm

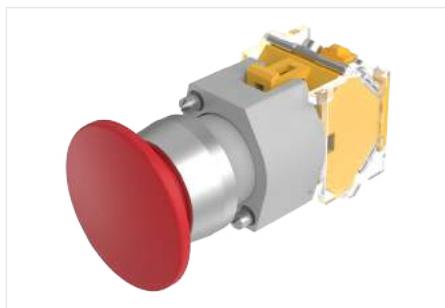
| Switching action | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|----------------|------------------|-----------|----------------|
| Momentary | Grey | Plastic | 704.631.1 | 72 |
| Maintained | Grey | Plastic | 704.632.1 | 73 |

Wiring diagrams

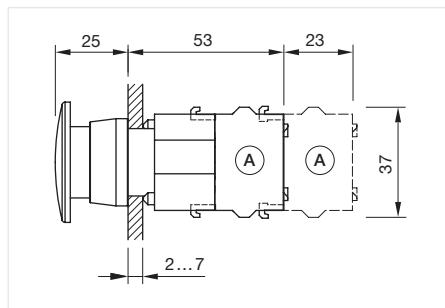
| | |
|-------------------|-------------------|
| | |
| Wiring diagram 72 | Wiring diagram 73 |

04 Raised design

Mushroom-head pushbutton, IP65

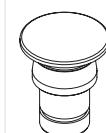


Product can differ from the current configuration

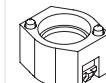


Dimensions [mm]
A = Screw termina

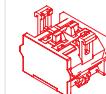
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

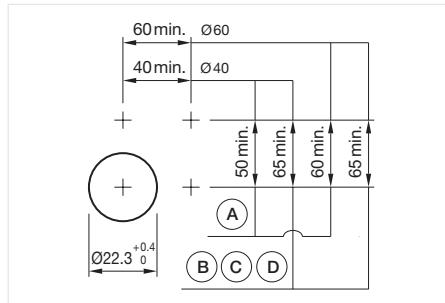


Switching element

Page 213

General information

- Max. 3 switching elements can be clipped on
 - The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]

A = Screw termina

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension Ø 40 mm

| Switching action | Front bezel colour | Front bezel material | Front bezel surface | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|---------------------|-------------|---------------|----------------|------------------|------------|----------------|
| Momentary | Grey | Plastic | | Black | Plastic | Grey | Plastic | 704.070.0 | 72 |
| | Grey | Plastic | | Red | Plastic | Grey | Plastic | 704.070.2 | 72 |
| | Grey | Plastic | | Yellow | Plastic | Grey | Plastic | 704.070.4 | 72 |
| | Grey | Plastic | | Green | Plastic | Grey | Plastic | 704.070.5 | 72 |
| | Nature | Aluminium | anodised | Black | Plastic | Grey | Plastic | 704.071.0 | 72 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.071.2 | 72 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.071.4 | 72 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.071.5 | 72 |
| | Nature | Aluminium | anodised | Red | Aluminium | Grey | Plastic | 704.079.2 | 72 |
| Maintained | Grey | Plastic | | Black | Plastic | Grey | Plastic | 704.072.0 | 73 |
| | Grey | Plastic | | Red | Plastic | Grey | Plastic | 704.072.2 | 73 |
| | Nature | Aluminium | anodised | Black | Plastic | Grey | Plastic | 704.073.0 | 73 |
| | Nature | Aluminium | anodised | Red | Plastic | Grey | Plastic | 704.073.2 | 73 |
| | Nature | Aluminium | anodised | Yellow | Plastic | Grey | Plastic | 704.073.4 | 73 |
| | Nature | Aluminium | anodised | Green | Plastic | Grey | Plastic | 704.073.5 | 73 |
| | Nature | Aluminium | anodised | Red | Aluminium | Grey | Plastic | 704.075.2I | 73 |

Wiring diagrams

| | |
|-------------------|-------------------|
| E--- | E~ - |
| Wiring diagram 72 | Wiring diagram 73 |

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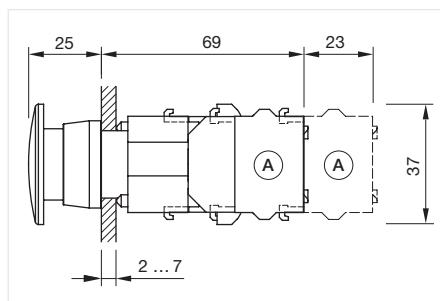
Modern. Tactile and long-lasting.
Series 04 illuminated selector switches.

Intuitive and reliable operation for enhanced safety in public transportation.

- Bright, single or bi-colour LED illumination
- Modern, ergonomic design
- Rounded edges (in accordance with DIN 5566-1)
- Excellent tactile feedback
- Long service life and robust construction
- Wide range of possible combinations and options

04 Raised design

Mushroom-head pushbutton illuminated, IP65

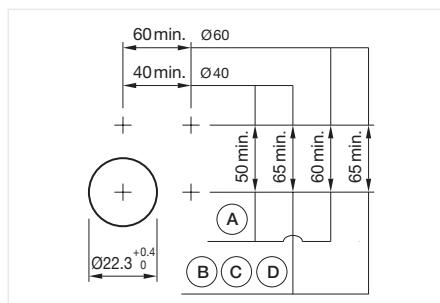


Product can differ from the current configuration.

General information

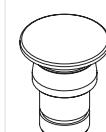
- Max. 3 switching elements can be clipped on
- The lamp block will be delivered with screw terminal

Dimensions [mm]
A = Screw terminal

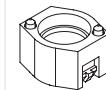


Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Actuator

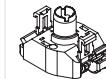


Bayonet flange

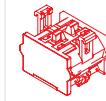


LED

Page 204



Lamp block



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

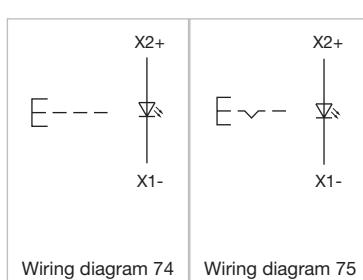
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 40 mm

| Switching action | Front bezel colour | Front bezel material | Lens colour | Lens material | Housing colour | Housing material | Part No. | Wiring diagram |
|------------------|--------------------|----------------------|-------------|---------------|----------------|------------------|-----------|----------------|
| Momentary | Grey | Plastic | Red | Plastic | Grey | Plastic | 704.084.2 | 74 |
| | Grey | Plastic | Yellow | Plastic | Grey | Plastic | 704.084.4 | 74 |
| | Grey | Plastic | Green | Plastic | Grey | Plastic | 704.084.5 | 74 |
| | Grey | Plastic | Blue | Plastic | Grey | Plastic | 704.084.6 | 74 |
| | Grey | Plastic | Colourless | Plastic | Grey | Plastic | 704.084.7 | 74 |
| Maintained | Grey | Plastic | Red | Plastic | Grey | Plastic | 704.086.2 | 75 |
| | Grey | Plastic | Yellow | Plastic | Grey | Plastic | 704.086.4 | 75 |
| | Grey | Plastic | Green | Plastic | Grey | Plastic | 704.086.5 | 75 |

Wiring diagrams

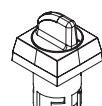


Wiring diagram 74

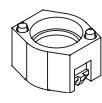
Wiring diagram 75

Selector switch illuminated, 2 positions, short lever, square, IP65

Equipment consisting of (schematic overview)



Actuator

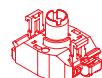


Bayonet flange



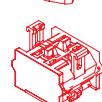
LED

Page 204



Lamp block

Page 210

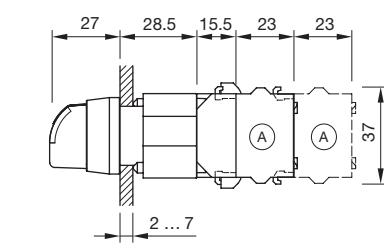


Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



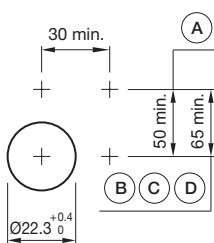
Dimensions [mm]
A = Screw terminal



Product can differ from the current configuration.

General information

- Max. 3 switching elements can be clipped on



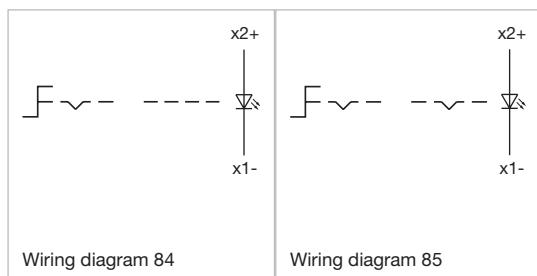
Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

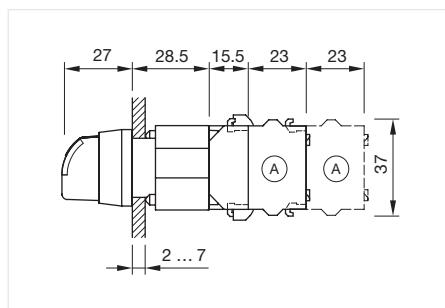
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|------------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | 704.510.0i | 85 |
| Rest - Momentary | Grey | Plastic | 42° right | 704.512.0i | 84 |

Wiring diagrams



04 Raised design

Selector switch illuminated, 2 positions, short lever, round, IP65



Equipment consisting of (schematic overview)



Actuator



Bayonet flange



LED

Page 204



Lamp block

Page 210

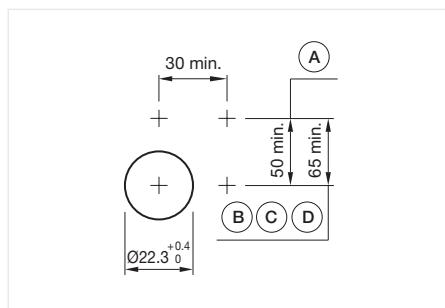


Switching element

Page 213

Product can differ from the current configuration.

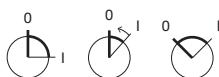
Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

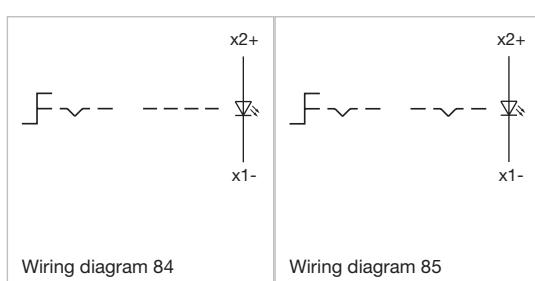
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|---------------------------|---------------------|------------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | | 704.410.0i | 85 |
| | Grey | Plastic | 90° right (-45° ... +45°) | | 704.410.1i | 85 |
| | Nature | Aluminium | 90° right | anodised | 704.411.0i | 85 |
| Rest - Momentary | Grey | Plastic | 42° right | | 704.412.0i | 84 |
| | Nature | Aluminium | 42° right | anodised | 704.413.0i | 84 |

Wiring diagrams

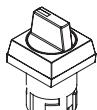


Wiring diagram 84

Wiring diagram 85

Selector switch 2 positions, short lever, square, IP65

Equipment consisting of (schematic overview)



Actuator

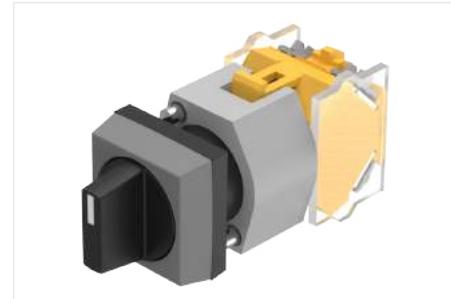
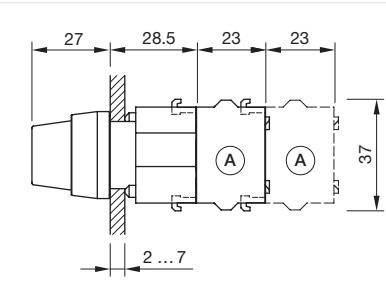


Bayonet flange



Switching element

Page 213

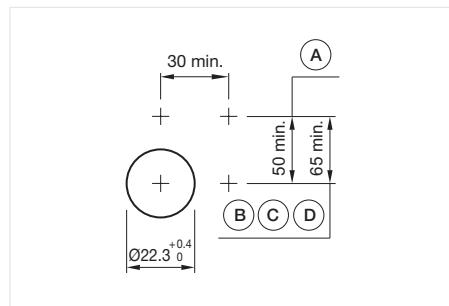


Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

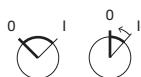
Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on

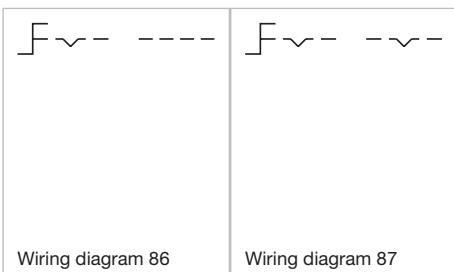
Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|-----------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | 704.510.0 | 87 |
| Rest - Momentary | Grey | Plastic | 42° right | 704.512.0 | 86 |

Wiring diagrams

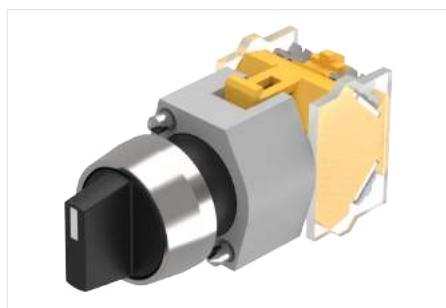


Wiring diagram 86

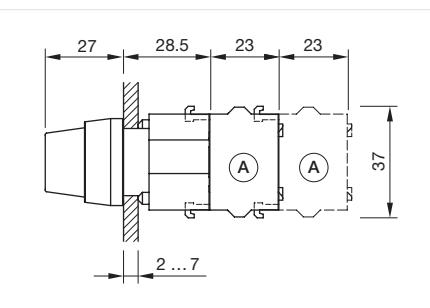
Wiring diagram 87

04 Raised design

Selector switch 2 positions, short lever, round, IP65

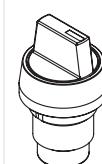


Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal

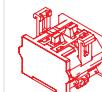
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

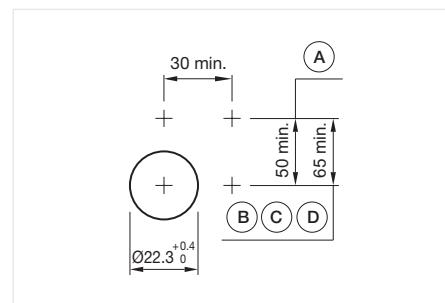


Switching element

Page 213

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

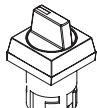
| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|-----------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | | 704.410.0 | 87 |
| | Nature | Aluminium | 90° right | anodised | 704.411.0 | 87 |
| Rest - Momentary | Grey | Plastic | 42° right | | 704.412.0 | 86 |
| | Nature | Aluminium | 42° right | anodised | 704.413.0 | 86 |

Wiring diagrams

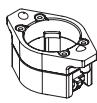
| | |
|-------------------|-------------------|
| | |
| Wiring diagram 86 | Wiring diagram 87 |

Selector switch 2 positions, short lever, square, IP65

Equipment consisting of (schematic overview)



Actuator

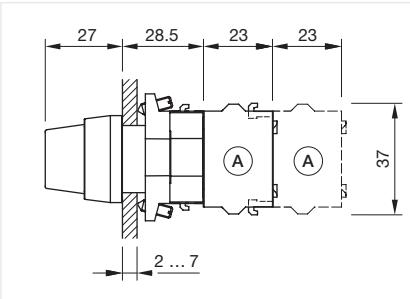


Bayonet flange



Switching element

Page 213

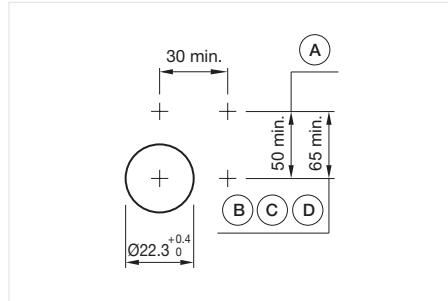


Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|--------------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | 704.510.0.12 | 87 |

Wiring diagrams



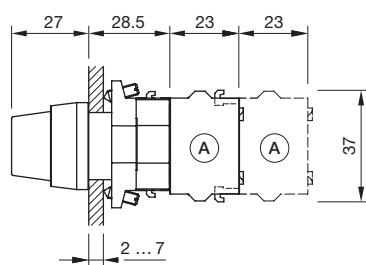
Wiring diagram 87

04 Raised design

Selector switch 2 positions, short lever, round, IP65

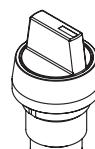


Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal

Equipment consisting of (schematic overview)



Actuator



Bayonet flange

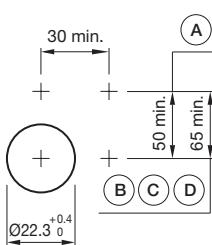


Switching element

Page 213

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

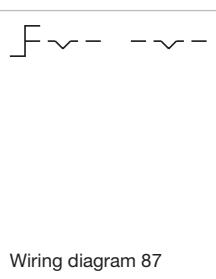
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|--------------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | | 704.410.0.12 | 87 |
| | Nature | Aluminium | 90° right | anodised | 704.411.0.12 | 87 |

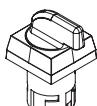
Wiring diagrams



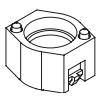
Wiring diagram 87

Selector switch illuminated, 2 positions, long lever, square, IP65

Equipment consisting of (schematic overview)



Actuator



Bayonet flange



LED

Page 204



Lamp block

Page 210

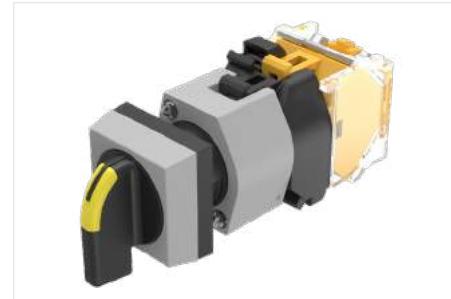
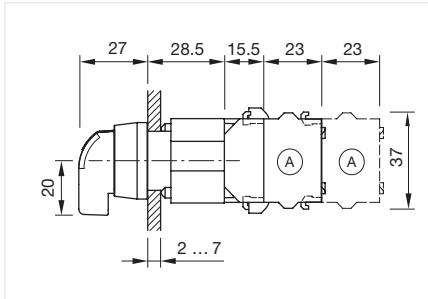


Switching element

Page 213

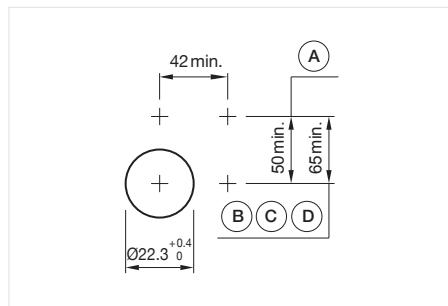
Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on

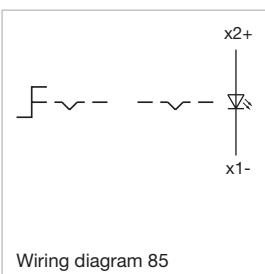
Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

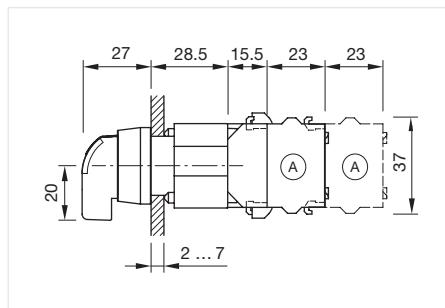
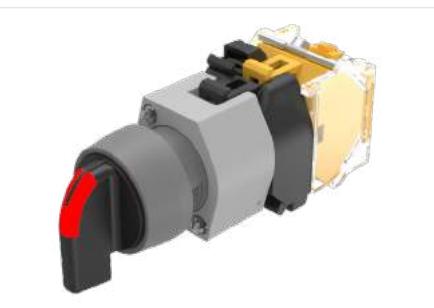
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|------------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | 704.300.0i | 85 |

Wiring diagrams



04 Raised design

Selector switch illuminated, 2 positions, long lever, round, IP65



Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

Equipment consisting of (schematic overview)



Actuator



Bayonet flange



LED

Page 204



Lamp block

Page 210

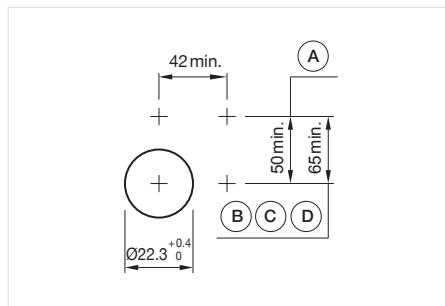


Switching element

Page 213

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

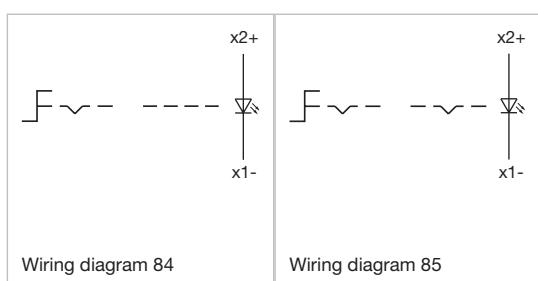
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|------------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | | 704.100.0i | 85 |
| | Nature | Aluminium | 90° right | anodised | 704.101.0i | 85 |
| Rest - Momentary | Grey | Plastic | 42° right | | 704.102.0i | 84 |
| | Nature | Aluminium | 42° right | anodised | 704.103.0i | 84 |

Wiring diagrams

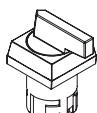


Wiring diagram 84

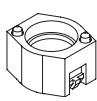
Wiring diagram 85

Selector switch 2 positions, long lever, square, IP65

Equipment consisting of (schematic overview)



Actuator

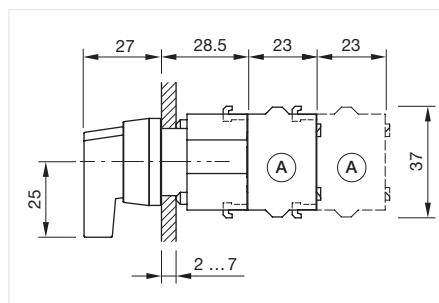
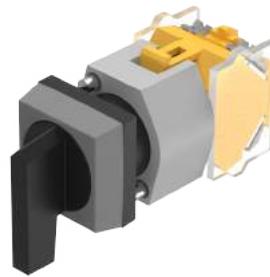


Bayonet flange



Switching element

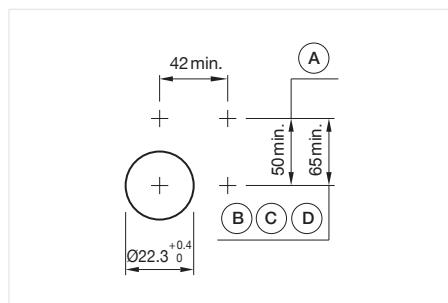
Page 213

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Each Part Number listed below includes all the black components shown in the 3D-drawing.

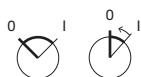
To obtain a complete unit, please select the red components from the pages shown.



General information

- Max. 3 switching elements can be clipped on

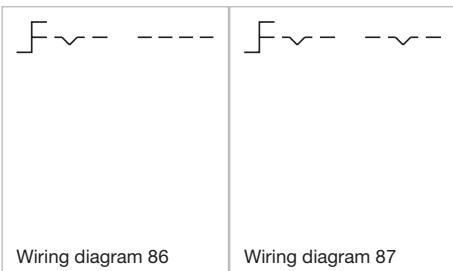
Mounting cut-outs [mm]
 A = Screw terminal
 B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

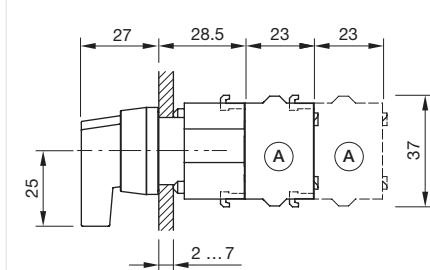
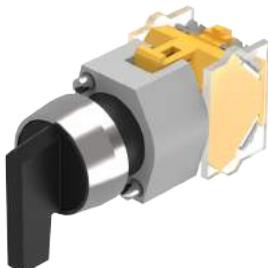
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|-----------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | 704.300.0 | 87 |
| Rest - Momentary | Grey | Plastic | 42° right | 704.302.0 | 86 |

Wiring diagrams



04 Raised design

Selector switch 2 positions, long lever, round, IP65



Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons

Equipment consisting of (schematic overview)



Actuator



Bayonet flange

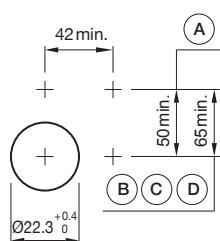


Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



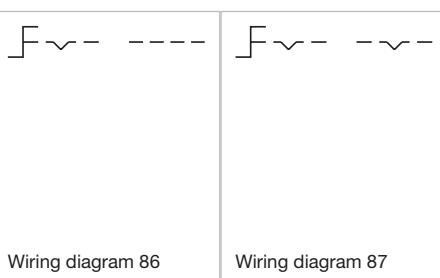
Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|-----------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | | 704.100.0 | 87 |
| | Nature | Aluminium | 90° right | anodised | 704.101.0 | 87 |
| Rest - Momentary | Grey | Plastic | 42° right | | 704.102.0 | 86 |
| | Nature | Aluminium | 42° right | anodised | 704.103.0 | 86 |

Wiring diagrams

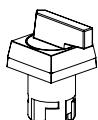


Wiring diagram 86

Wiring diagram 87

Selector switch 2 positions, long lever, square, IP65

Equipment consisting of (schematic overview)



Actuator

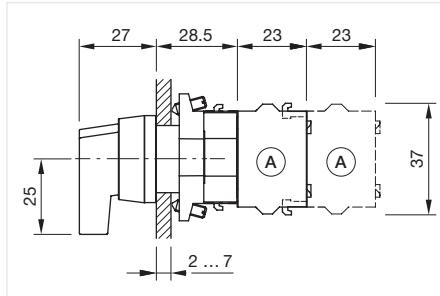


Bayonet flange



Switching element

Page 213

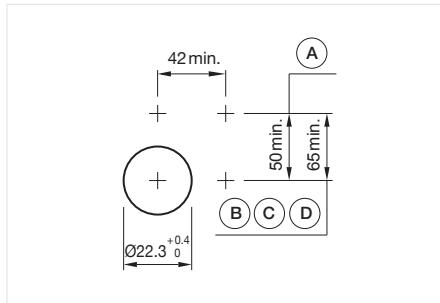


Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on

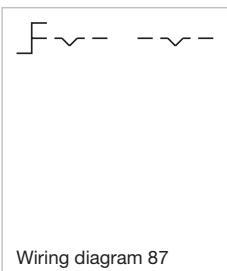
Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|--------------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | 704.300.0.12 | 87 |

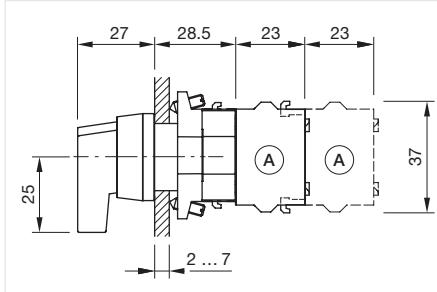
Wiring diagrams



Wiring diagram 87

04 Raised design

Selector switch 2 positions, long lever, round, IP65



Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons

Equipment consisting of (schematic overview)



Actuator

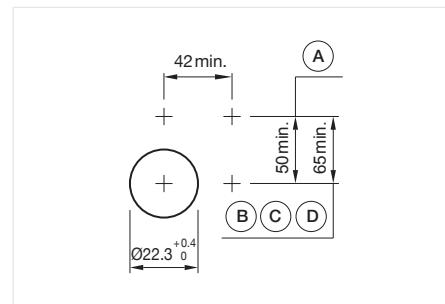


Bayonet flange



Switching element

Page 213



Each Part Number listed below includes all the black components shown in the 3D-drawing.

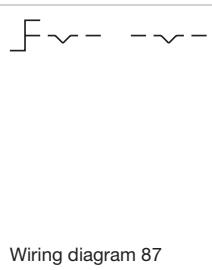
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|-------------------|--------------------|----------------------|-----------------|---------------------|--------------|----------------|
| Rest - Maintained | Grey | Plastic | 90° right | | 704.100.0.12 | 87 |
| | Nature | Aluminium | 90° right | anodised | 704.101.0.12 | 87 |

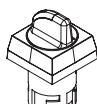
Wiring diagrams



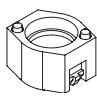
Wiring diagram 87

Selector switch illuminated, 3 positions, short lever, square, IP65

Equipment consisting of (schematic overview)



Actuator



Bayonet flange



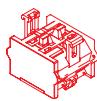
LED

Page 204



Lamp block

Page 210

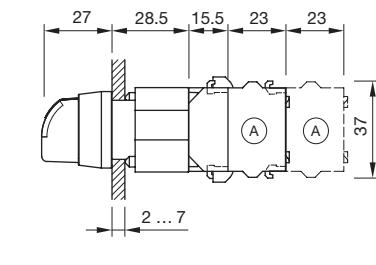


Switching element

Page 213

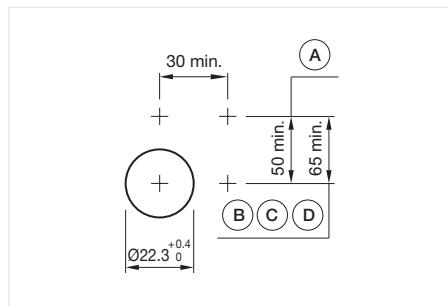
Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



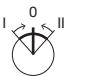
Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

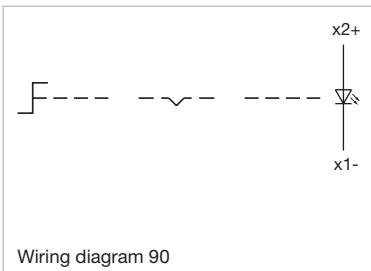
- Max. 3 switching elements can be clipped on



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|------------------------------|--------------------|----------------------|----------------------|------------|----------------|
| Momentary - Rest - Momentary | Grey | Plastic | 42° left / 42° right | 704.504.0i | 90 |

Wiring diagrams



04 Raised design

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[On our website you can download technical data, assembly instructions, catalogs, brochures and much more.](http://www.eao.com/downloads)

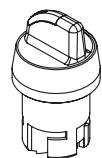
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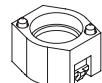
Your Expert Partner for Human Machine Interfaces

Selector switch illuminated, 3 positions, short lever, round, IP65

Equipment consisting of (schematic overview)



Actuator

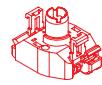


Bayonet flange



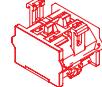
LED

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Lamp block

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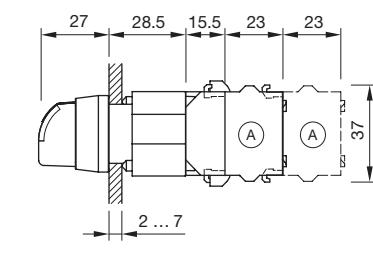


Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

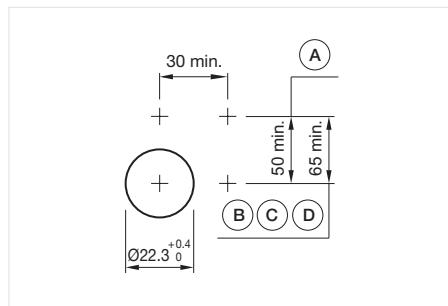
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
A = Screw terminal

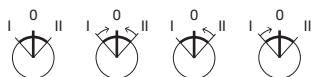


Product can differ from the current configuration.



General information

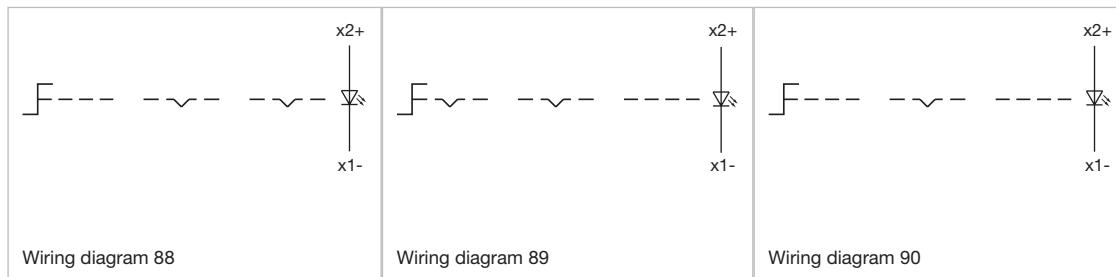
- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Actuator, Front dimension Ø 29 mm

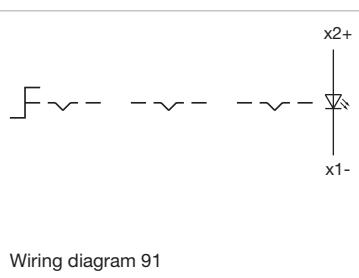
| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|---------------------|------------|----------------|
| Maintained - Rest - Maintained | Grey | Plastic | 42° left / 42° right | | 704.402.0i | 91 |
| | Nature | Aluminium | 42° left / 42° right | | 704.403.0i | 91 |
| Momentary - Rest - Momentary | Grey | Plastic | 42° left / 42° right | | 704.404.0i | 90 |
| | Nature | Aluminium | 42° left / 42° right | | 704.405.0i | 90 |
| Maintained - Rest - Momentary | Nature | Aluminium | 42° left / 42° right | anodised | 704.407.0i | 89 |
| Momentary - Rest - Maintained | Nature | Aluminium | 42° left / 42° right | anodised | 704.409.0i | 88 |

Wiring diagrams



04 Raised design

Wiring diagrams



Modern. Tactile and long-lasting.
Series 04 illuminated selector switches.

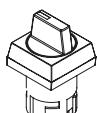
Intuitive and reliable operation for enhanced safety in public transportation.

- Bright, single or bi-colour LED illumination
- Modern, ergonomic design
- Rounded edges (in accordance with DIN 5566-1)
- Excellent tactile feedback
- Long service life and robust construction
- Wide range of possible combinations and options

e a o

Selector switch 3 positions, short lever, square, IP65

Equipment consisting of (schematic overview)



Actuator

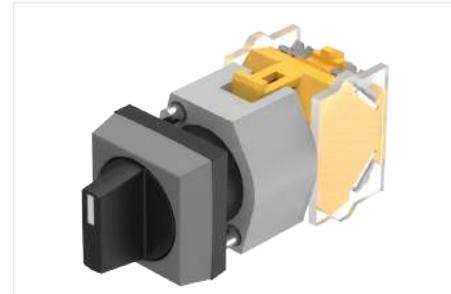
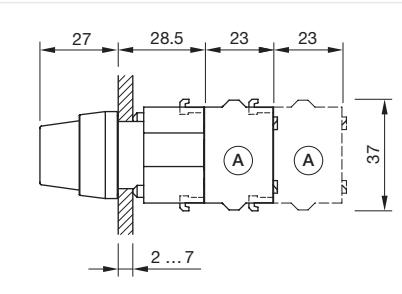


Bayonet flange



Switching element

Page 213

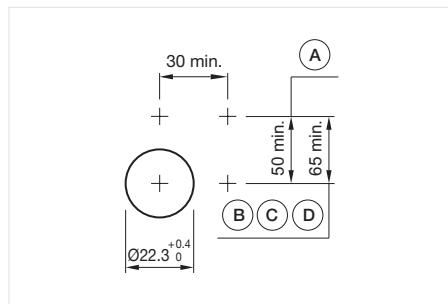


Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

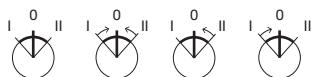
Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

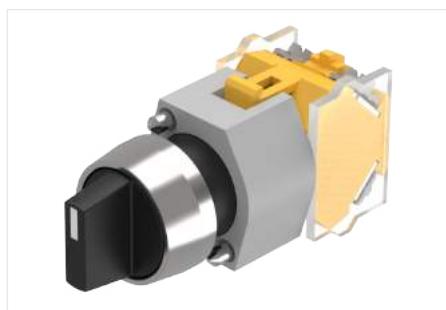
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|-----------|----------------|
| Maintained - Rest - Maintained | Grey | Plastic | 42° left / 42° right | 704.502.0 | 95 |
| Momentary - Rest - Momentary | Grey | Plastic | 42° left / 42° right | 704.504.0 | 94 |
| Maintained - Rest - Momentary | Grey | Plastic | 42° left / 42° right | 704.506.0 | 93 |
| Momentary - Rest - Maintained | Grey | Plastic | 42° left / 42° right | 704.508.0 | 92 |

Wiring diagrams

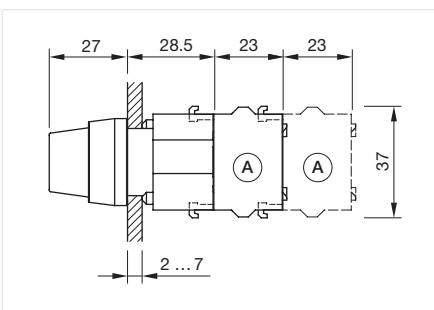
| | | | |
|-------------------|-------------------|-------------------|-------------------|
| | | | |
| Wiring diagram 92 | Wiring diagram 93 | Wiring diagram 94 | Wiring diagram 95 |

04 Raised design

Selector switch 3 positions, short lever, round, IP65

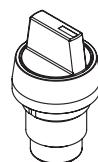


Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal

Equipment consisting of (schematic overview)



Actuator



Bayonet flange

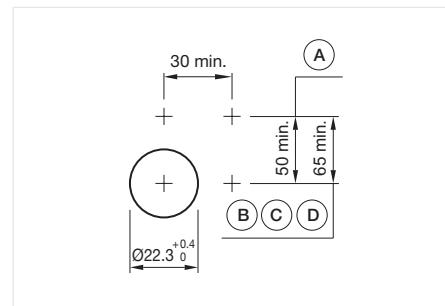


Switching element

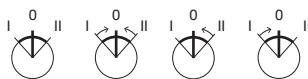
Page 213

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension Ø 29 mm

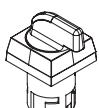
| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|---------------------|-----------|----------------|
| Maintained - Rest - Maintained | Grey | Plastic | 42° left / 42° right | | 704.402.0 | 95 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.403.0 | 95 |
| Momentary - Rest - Momentary | Grey | Plastic | 42° left / 42° right | | 704.404.0 | 94 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.405.0 | 94 |
| Maintained - Rest - Momentary | Grey | Plastic | 42° left / 42° right | | 704.406.0 | 93 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.407.0 | 93 |
| Momentary - Rest - Maintained | Grey | Plastic | 42° left / 42° right | | 704.408.0 | 92 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.409.0 | 92 |

Wiring diagrams

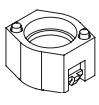
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| Wiring diagram 92 | Wiring diagram 93 | Wiring diagram 94 | Wiring diagram 95 |

Selector switch illuminated, 3 positions, long lever, square, IP65

Equipment consisting of (schematic overview)



Actuator



Bayonet flange



LED

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Lamp block

Page 210

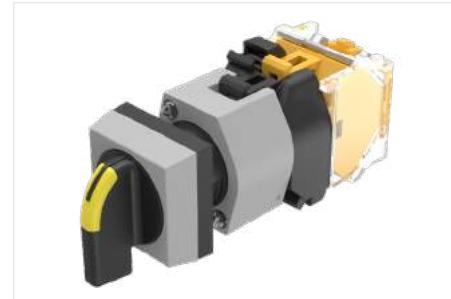
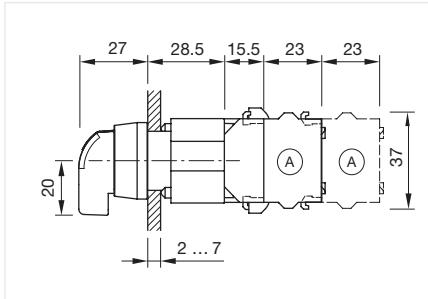


Switching element

Page 213

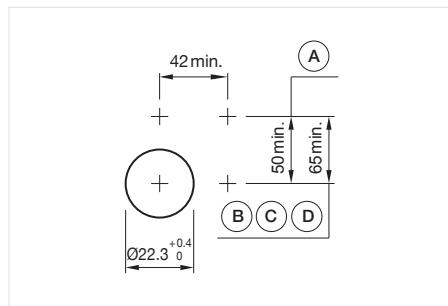
Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

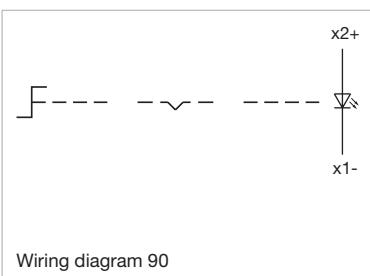
- Max. 3 switching elements can be clipped on



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|------------------------------|--------------------|----------------------|----------------------|------------|----------------|
| Momentary - Rest - Momentary | Grey | Plastic | 42° left / 42° right | 704.294.0i | 90 |

Wiring diagrams



Wiring diagram 90

04 Raised design

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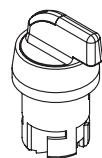
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Selector switch illuminated, 3 positions, long lever, round, IP65

Equipment consisting of (schematic overview)



Actuator

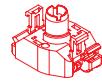


Bayonet flange



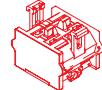
LED

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Lamp block

Page 210

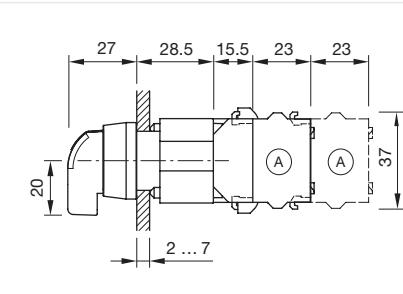
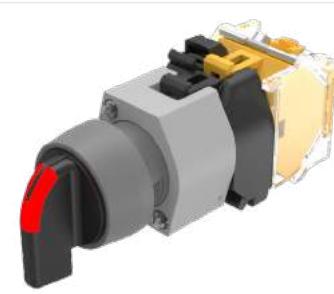


Switching element

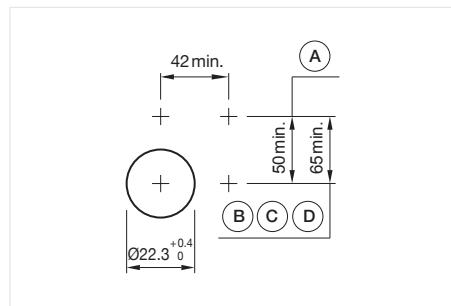
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

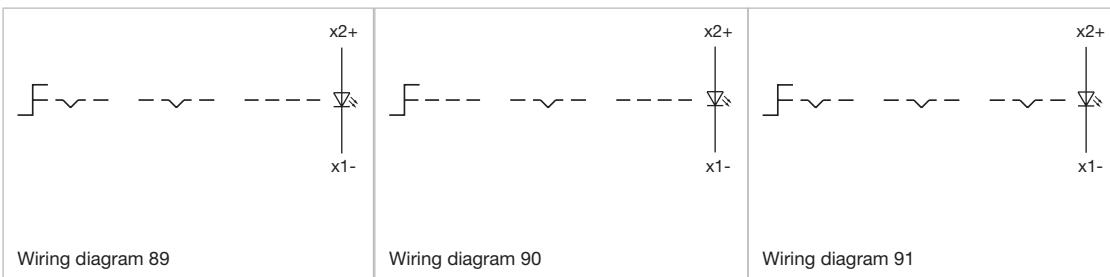
- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|---------------------|------------|----------------|
| Maintained - Rest - Maintained | Grey | Plastic | 42° left / 42° right | | 704.092.0i | 91 |
| Momentary - Rest - Momentary | Grey | Plastic | 42° left / 42° right | | 704.094.0i | 90 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.095.0i | 90 |
| Maintained - Rest - Momentary | Nature | Aluminium | 42° left / 42° right | anodised | 704.097.0i | 89 |

Wiring diagrams



04 Raised design

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<https://www.linkedin.com/company/eaosolutions/>

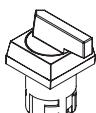
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Selector switch 3 positions, long lever, square, IP65

Equipment consisting of (schematic overview)



Actuator

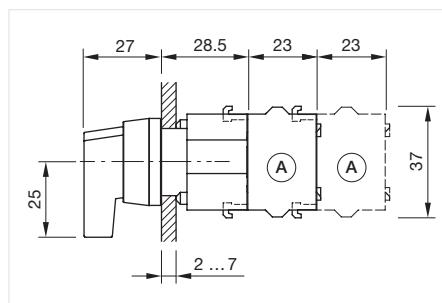
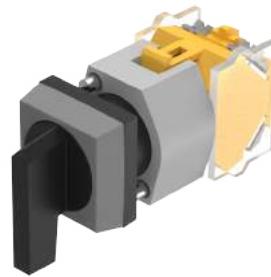


Bayonet flange



Switching element

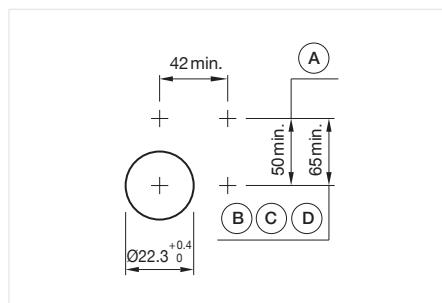
Page 213

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Each Part Number listed below includes all the black components shown in the 3D-drawing.

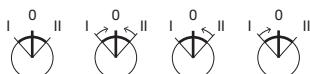
To obtain a complete unit, please select the red components from the pages shown.



General information

- Max. 3 switching elements can be clipped on

Mounting cut-outs [mm]
 A = Screw terminal
 B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

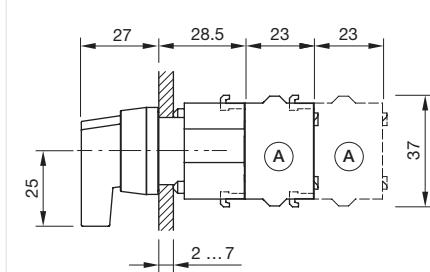
| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|-----------|----------------|
| Maintained - Rest - Maintained | Grey | Plastic | 42° left / 42° right | 704.292.0 | 95 |
| Momentary - Rest - Momentary | Grey | Plastic | 42° left / 42° right | 704.294.0 | 94 |
| Maintained - Rest - Momentary | Grey | Plastic | 42° left / 42° right | 704.296.0 | 93 |
| Momentary - Rest - Maintained | Grey | Plastic | 42° left / 42° right | 704.298.0 | 92 |

Wiring diagrams

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| | | | |
| Wiring diagram 92 | Wiring diagram 93 | Wiring diagram 94 | Wiring diagram 95 |

04 Raised design

Selector switch 3 positions, long lever, round, IP65



Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

Equipment consisting of (schematic overview)



Actuator



Bayonet flange

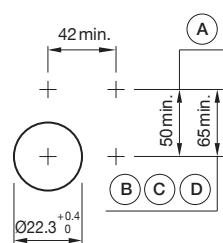


Switching element

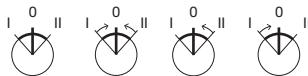
Page 213

General information

- Max. 3 switching elements can be clipped on
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension Ø 29 mm

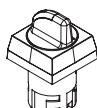
| Switching action | Front bezel colour | Front bezel material | Switching angle | Front bezel surface | Part No. | Wiring diagram |
|--------------------------------|--------------------|----------------------|----------------------|---------------------|-----------|----------------|
| Maintained - Rest - Maintained | Grey | Plastic | 42° left / 42° right | | 704.092.0 | 95 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.093.0 | 95 |
| Momentary - Rest - Momentary | Grey | Plastic | 42° left / 42° right | | 704.094.0 | 94 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.095.0 | 94 |
| Maintained - Rest - Momentary | Grey | Plastic | 42° left / 42° right | | 704.096.0 | 93 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.097.0 | 93 |
| Momentary - Rest - Maintained | Grey | Plastic | 42° left / 42° right | | 704.098.0 | 92 |
| | Nature | Aluminium | 42° left / 42° right | anodised | 704.099.0 | 92 |

Wiring diagrams

| | | | |
|-------------------|-------------------|-------------------|-------------------|
| | | | |
| Wiring diagram 92 | Wiring diagram 93 | Wiring diagram 94 | Wiring diagram 95 |

Selector rotary switch, short lever, rounded, square, IP65

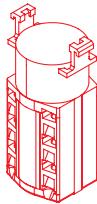
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

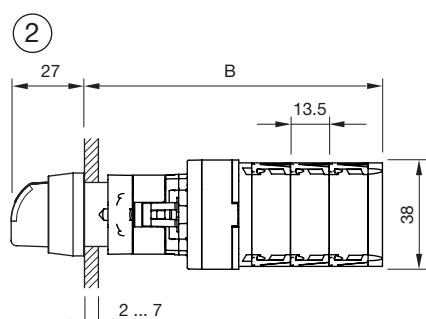
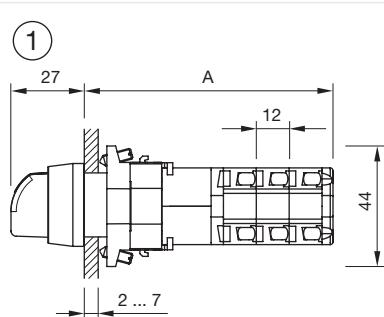


Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.

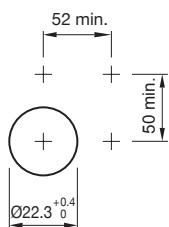
Dimensions [mm]

1 = Kraus & Naimer switching element

A = (Number of stages x 12) + 66.5 mm

2 = Santon switching element

B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension 30 mm x 30 mm

| Front bezel colour | Front bezel material | Switching positions | Part No. |
|--------------------|----------------------|---------------------|--------------|
| Grey | Plastic | Rest = 9 o'clock | 704.510.1KNI |

04 Raised design

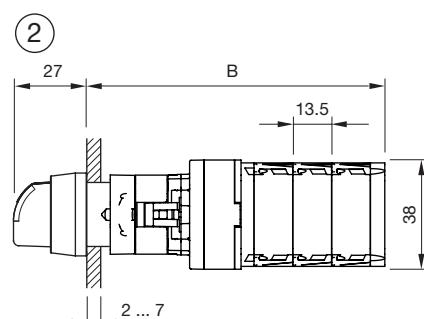
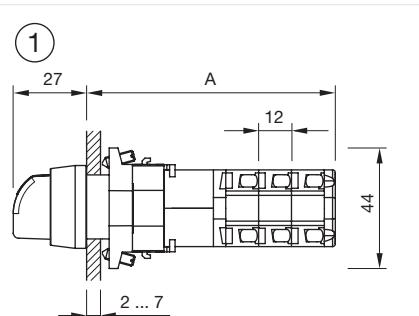
Selector rotary switch, short lever rounded, round, IP65



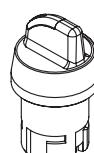
Product can differ from the current configuration.

General information

- The colour of anodised aluminium parts can vary due to technical production reasons



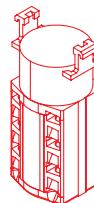
Equipment consisting of (schematic overview)



Actuator



Bayonet flange



Switching element

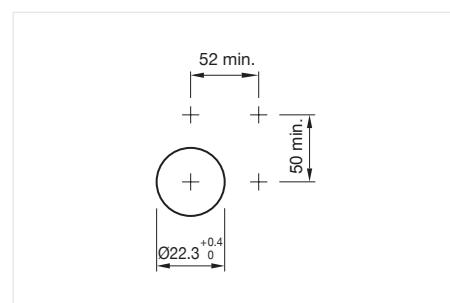
Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]

- 1 = Kraus & Naimer switching element
A = (Number of stages x 12) + 66.5 mm
2 = Santon switching element
B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]

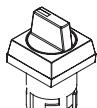


Actuator, Front dimension Ø 29 mm

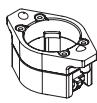
| Front bezel colour | Front bezel material | Switching positions | Front bezel surface | Part No. |
|--------------------|----------------------|---------------------|---------------------|--------------|
| Nature | Aluminium | Rest = 9 o'clock | anodised | 704.411.1KNI |

Selector rotary switch, short lever, square, IP65

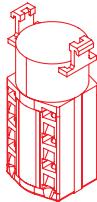
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

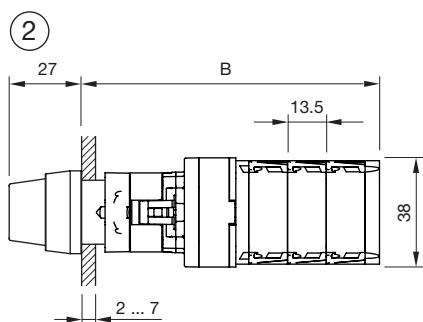
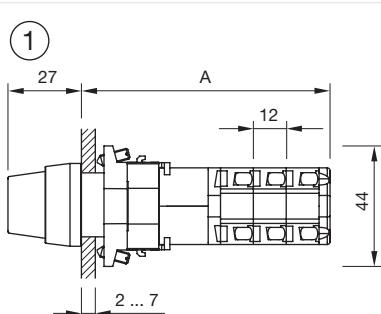


Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.

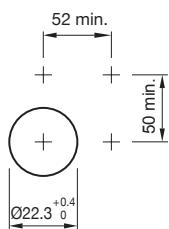
Dimensions [mm]

1 = Kraus & Naimer switching element

A = (Number of stages x 12) + 66.5 mm

2 = Santon switching element

B = (Number of stages x 13.5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension 30 mm x 30 mm

| Front bezel colour | Front bezel material | Switching positions | Part No. |
|--------------------|----------------------|---------------------|-------------|
| Grey | Plastic | Rest = 9 o'clock | 704.510.1KN |

04 Raised design

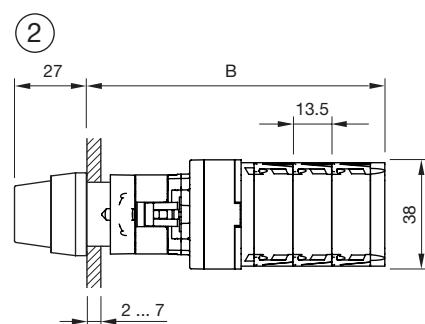
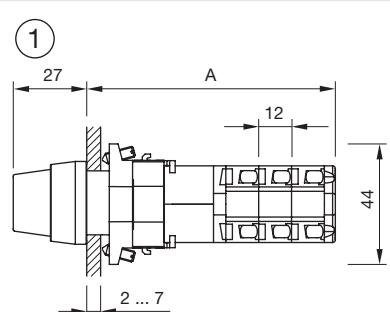
Selector rotary switch, short lever, round, IP65



Product can differ from the current configuration.

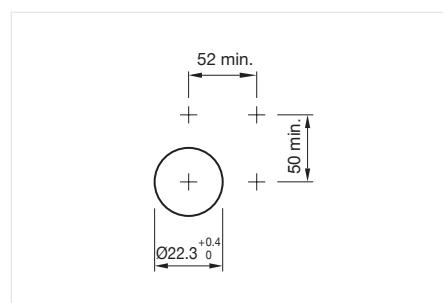
General information

- The colour of anodised aluminium parts can vary due to technical production reasons



Dimensions [mm]

1 = Kraus & Naimer switching element
A = (Number of stages x 12) + 66.5 mm
2 = Santon switching element
B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension Ø 29 mm

| Front bezel colour | Front bezel material | Switching positions | Front bezel surface | Part No. |
|--------------------|----------------------|---------------------|---------------------|-------------|
| Nature | Aluminium | Rest = 9 o'clock | anodised | 704.411.1KN |

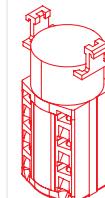
Equipment consisting of (schematic overview)



Actuator



Bayonet flange



Switching element

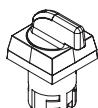
Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

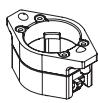
To obtain a complete unit, please select the red components from the pages shown.

Selector rotary switch, long lever rounded, square, IP65

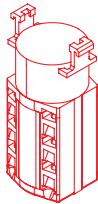
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

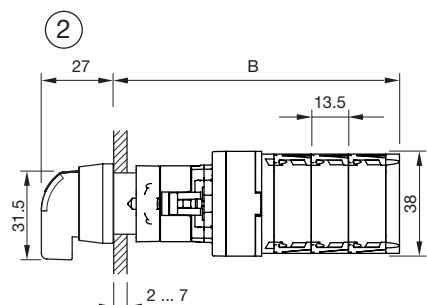
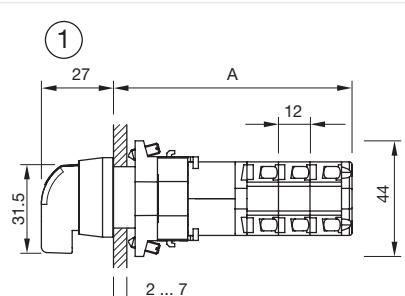


Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.

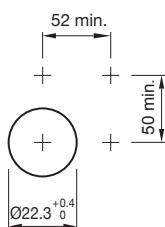
Dimensions [mm]

1 = Kraus & Naimer switching element

A = (Number of stages x 12) + 66.5 mm

2 = Santon switching element

B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension 30 mm x 30 mm

| Front bezel colour | Front bezel material | Switching positions | Part No. |
|--------------------|----------------------|---------------------|--------------|
| Grey | Plastic | Rest = 9 o'clock | 704.300.1KNI |

04 Raised design

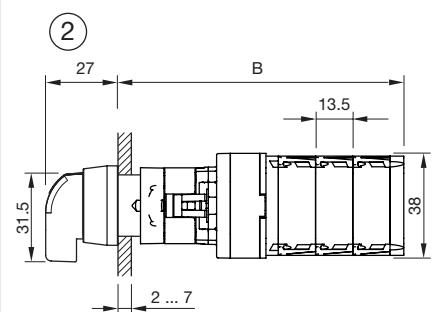
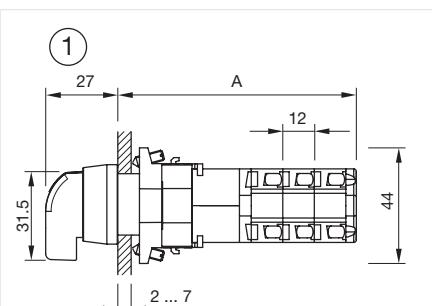
Selector rotary switch, long lever rounded, round, IP65



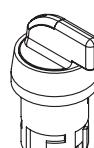
Product can differ from the current configuration.

General information

- The colour of anodised aluminium parts can vary due to technical production reasons



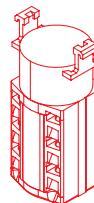
Equipment consisting of (schematic overview)



Actuator



Bayonet flange



Switching element

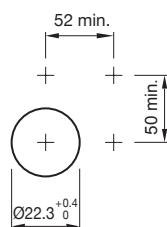
Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]

- 1 = Kraus & Naimer switching element
A = (Number of stages x 12) + 66.5 mm
2 = Santon switching element
B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]

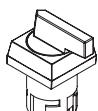


Actuator, Front dimension Ø 29 mm

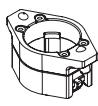
| Front bezel colour | Front bezel material | Switching positions | Front bezel surface | Part No. |
|--------------------|----------------------|---------------------|---------------------|--------------|
| Nature | Aluminium | Rest = 9 o'clock | anodised | 704.101.1KNI |

Selector rotary switch, long lever, square, IP65

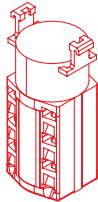
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

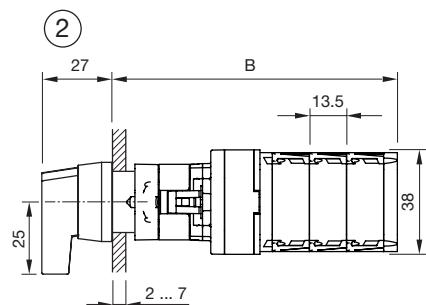
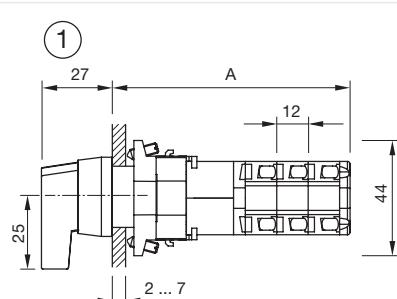


Switching element

Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Product can differ from the current configuration.

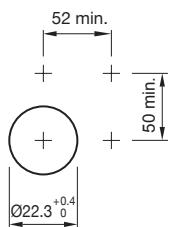
Dimensions [mm]

1 = Kraus & Naimer switching element

A = (Number of stages x 12) + 66.5 mm

2 = Santon switching element

B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension 30 mm x 30 mm

| Front bezel colour | Front bezel material | Switching positions | Part No. |
|--------------------|----------------------|---------------------|-------------|
| Grey | Plastic | Rest = 9 o'clock | 704.300.1KN |

04 Raised design

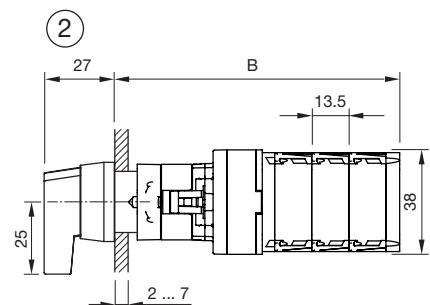
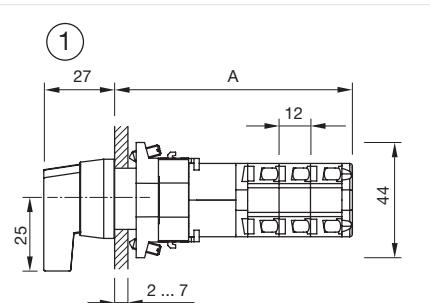
Selector rotary switch, long lever, round, IP65



Product can differ from the current configuration.

General information

- The colour of anodised aluminium parts can vary due to technical production reasons



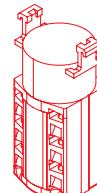
Equipment consisting of (schematic overview)



Actuator



Bayonet flange



Switching element

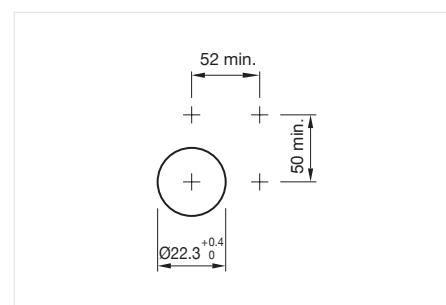
Page 227

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]

- 1 = Kraus & Naimer switching element
A = (Number of stages x 12) + 66.5 mm
2 = Santon switching element
B = (Number of stages x 13,5) + 65.5 mm



Mounting cut-outs [mm]



Actuator, Front dimension Ø 29 mm

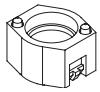
| Front bezel colour | Front bezel material | Switching positions | Front bezel surface | Part No. |
|--------------------|----------------------|---------------------|---------------------|-------------|
| Nature | Aluminium | Rest = 12 o'clock | anodised | 704.101.0KN |
| | Aluminium | Rest = 9 o'clock | anodised | 704.101.1KN |

Keylock switch 2 positions, square, IP65

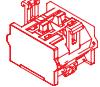
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

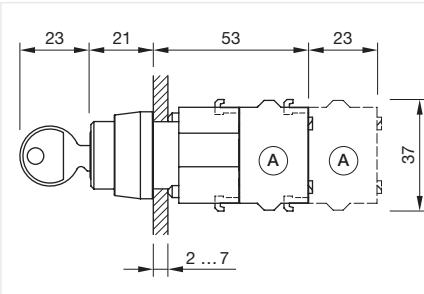


Switching element

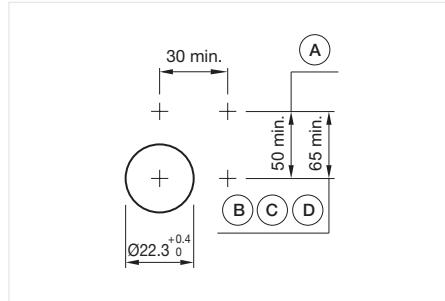
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Actuator, Front dimension 30 mm x 30 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|---------------------------|--------------------|----------------------|-----------------|-----------|----------------|
| Rest - Maintained (a) | Grey | Plastic | 90° right | 704.340.0 | 79 |
| Rest (a) - Maintained | Grey | Plastic | 90° right | 704.341.0 | 79 |
| Rest (a) - Maintained (a) | Grey | Plastic | 90° right | 704.342.0 | 79 |
| Rest (a) - Momentary | Grey | Plastic | 42° right | 704.343.0 | 78 |

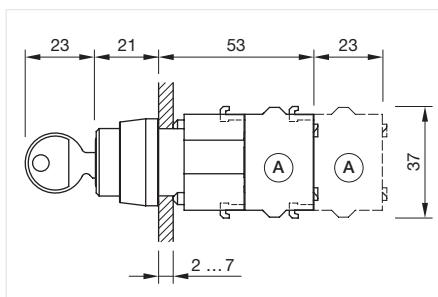
a = Key remove

Wiring diagrams

| | |
|-------------------|-------------------|
| | |
| Wiring diagram 78 | Wiring diagram 79 |

04 Raised design

Keylock switch 2 positions, round, IP65

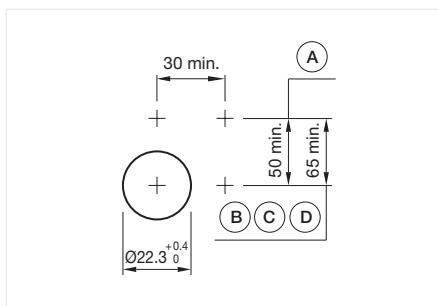


Product can differ from the current configuration.

Dimensions [mm]
A = Screw terminal

General information

- Max. 3 switching elements can be clipped on
- The standard lock Ronis 251
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

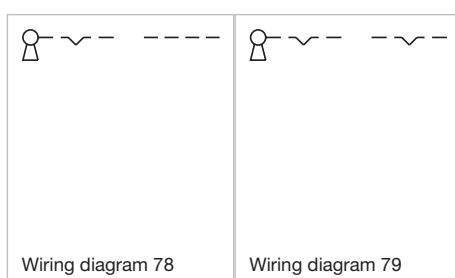


Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|---------------------------|--------------------|----------------------|-----------------|-----------|----------------|
| Rest - Maintained (a) | Nature | Aluminium | 90° right | 704.120.0 | 79 |
| Rest (a) - Maintained | Nature | Aluminium | 90° right | 704.121.0 | 79 |
| Rest (a) - Maintained (a) | Nature | Aluminium | 90° right | 704.122.0 | 79 |
| Rest (a) - Momentary | Nature | Aluminium | 42° right | 704.123.0 | 78 |

a = Key remove

Wiring diagrams



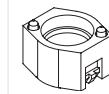
Wiring diagram 78

Wiring diagram 79

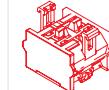
Equipment consisting of (schematic overview)



Actuator



Bayonet flange



Switching element

Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Keylock switch 3 positions, square, IP65

Equipment consisting of (schematic overview)



Actuator

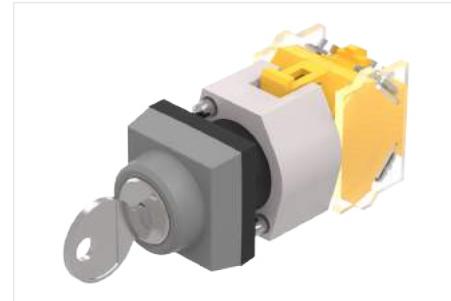
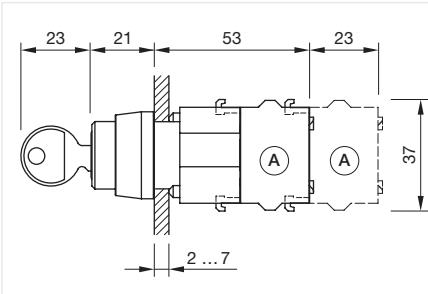


Bayonet flange



Switching element

Page 213

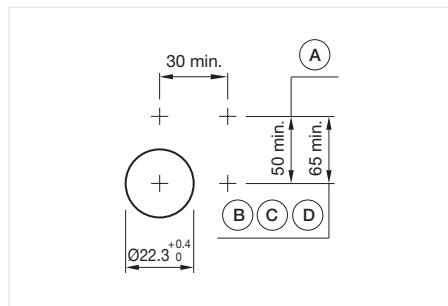


Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

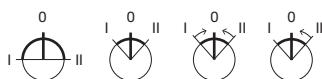
Product can differ from the current configuration.



General information

- Max. 3 switching elements can be clipped on
- The standard lock Ronis 251

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension 30 mm x 30 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--|--------------------|----------------------|----------------------|-----------|----------------|
| Maintained (a) - Rest (a) - Maintained (a) | Grey | Plastic | 90° left / 90° right | 704.333.0 | 83 |
| Maintained - Rest (a) - Maintained | Grey | Plastic | 42° left / 42° right | 704.334.0 | 83 |
| Momentary - Rest (a) - Momentary | Grey | Plastic | 42° left / 42° right | 704.335.0 | 82 |
| Maintained (a) - Rest - Momentary | Grey | Plastic | 42° left / 42° right | 704.337.0 | 81 |
| Maintained (a) - Rest (a) - Momentary | Grey | Plastic | 42° left / 42° right | 704.344.0 | 81 |

a = Key remove

Wiring diagrams

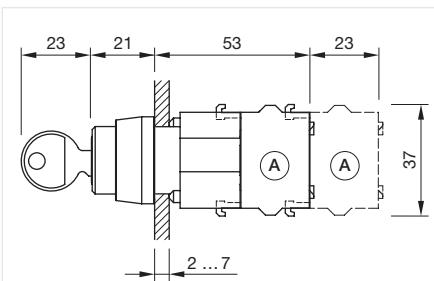
| | | |
|-------------------|-------------------|-------------------|
| | | |
| Wiring diagram 81 | Wiring diagram 82 | Wiring diagram 83 |

04 Raised design

Keylock switch 3 positions, round, IP65



Product can differ from the current configuration.

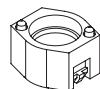


Dimensions [mm]
A = Screw terminal

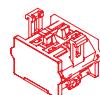
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

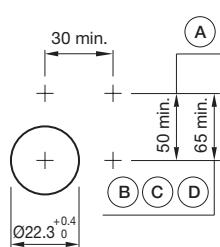


Switching element

Page 213

General information

- Max. 3 switching elements can be clipped on
- The standard lock Ronis 251
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

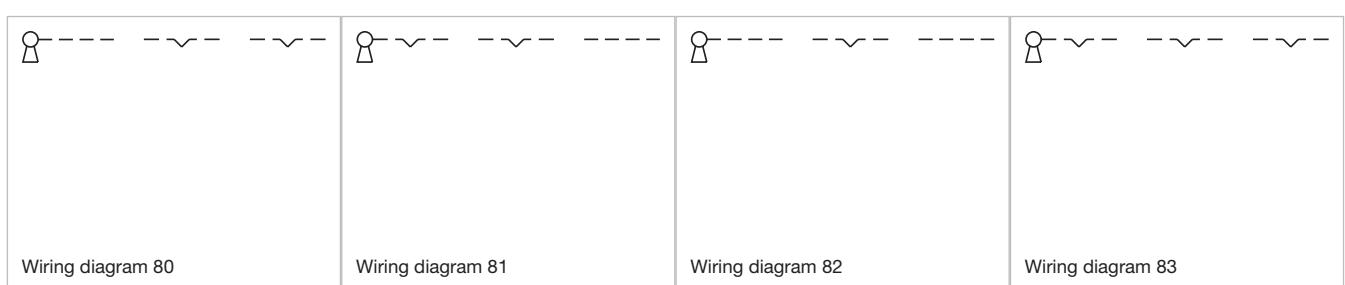


Actuator, Front dimension Ø 29 mm

| Switching action | Front bezel colour | Front bezel material | Switching angle | Part No. | Wiring diagram |
|--|--------------------|----------------------|----------------------|-----------|----------------|
| Maintained (a) - Rest (a) - Maintained (a) | Nature | Aluminium | 90° left / 90° right | 704.113.0 | 83 |
| Maintained - Rest (a) - Maintained | Nature | Aluminium | 42° left / 42° right | 704.114.0 | 83 |
| Momentary - Rest (a) - Momentary | Nature | Aluminium | 42° left / 42° right | 704.115.0 | 82 |
| Maintained (a) - Rest - Maintained (a) | Nature | Aluminium | 42° left / 42° right | 704.116.0 | 83 |
| Maintained (a) - Rest - Momentary | Nature | Aluminium | 42° left / 42° right | 704.117.0 | 81 |
| Momentary - Rest (a) - Maintained | Nature | Aluminium | 42° left / 42° right | 704.118.0 | 80 |
| Maintained (a) - Rest (a) - Momentary | Nature | Aluminium | 42° left / 42° right | 704.124.0 | 81 |

a = Key remove

Wiring diagrams



Indicator full-face illumination compact, round, IP65

Equipment consisting of (schematic overview)



Lens cap

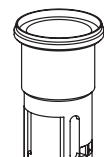


Marking cap



LED

Page 204



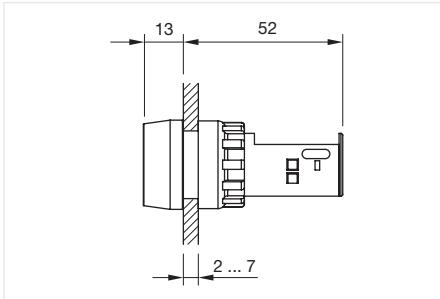
Actuator



Fixing nut

Each Part Number listed below includes all the black components shown in the 3D-drawing.

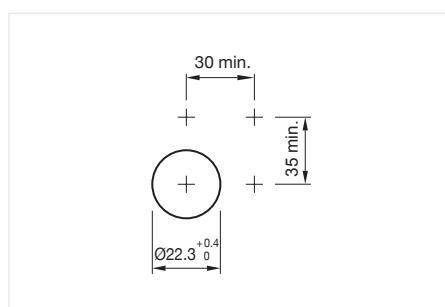
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Product can differ from the current configuration.



Mounting cut-outs [mm]



Actuator, Front dimension Ø 29 mm

| Product attributes | Housing colour | Housing material | Lens cap colour | Marking cap colour | Part No. | Wiring diagram |
|---|----------------|------------------|-----------------|--------------------|-----------|----------------|
| Filament lamp max. 2.6 W or LED | Grey | Plastic | Red | White | 704.020.2 | 4 |
| | Grey | Plastic | Yellow | White | 704.020.4 | 4 |
| | Grey | Plastic | Green | White | 704.020.5 | 4 |
| | Grey | Plastic | Blue | White | 704.020.6 | 4 |
| | Grey | Plastic | Colourless | White | 704.020.7 | 4 |
| | Grey | Plastic | Red | Colourless | 704.021.2 | 4 |
| | Grey | Plastic | Yellow | Colourless | 704.021.4 | 4 |
| | Grey | Plastic | Green | Colourless | 704.021.5 | 4 |
| | Grey | Plastic | Blue | Colourless | 704.021.6 | 4 |
| | Grey | Plastic | Colourless | Colourless | 704.021.7 | 4 |
| Filament lamp 130 V, max. 2.6 W with integrated series resistor 230/130 V | Grey | Plastic | Red | White | 704.022.2 | 105 |
| | Grey | Plastic | Yellow | White | 704.022.4 | 105 |
| | Grey | Plastic | Green | White | 704.022.5 | 105 |
| | Grey | Plastic | Colourless | White | 704.022.7 | 105 |

04 Raised design

Wiring diagrams

x2+
x1-

x2+
X1-
X1-

Wiring diagram 4

Wiring diagram 105



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Indicator full-face illumination compact, round, IP65

Equipment consisting of (schematic overview)



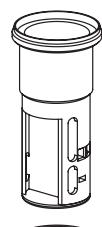
Lens cap Page 200



Marking cap Page 201



LED Page 204



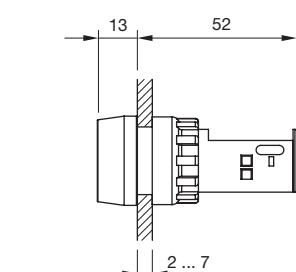
Actuator



Fixing nut

Each Part Number listed below includes all the black components shown in the 3D-drawing.

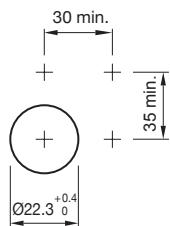
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Product can differ from the current configuration.



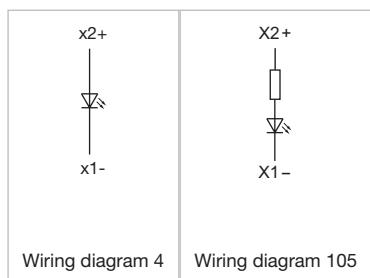
Mounting cut-outs [mm]



Actuator, Front dimension Ø 29 mm

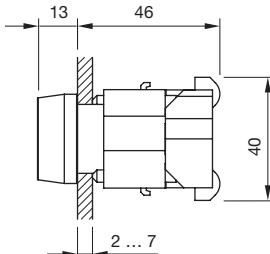
| Product attributes | Housing colour | Housing material | Part No. | Wiring diagram |
|---|----------------|------------------|-----------|----------------|
| Without built-in series resistor | Grey | Plastic | 704.642.0 | 4 |
| With series resistor for 220/240 V and filament lamp 130 V, 20 mA | Grey | Plastic | 704.642.1 | 105 |
| With series resistor for 110/125 V and filament lamp 60 V, 33 mA | Grey | Plastic | 704.642.2 | 105 |

Wiring diagrams



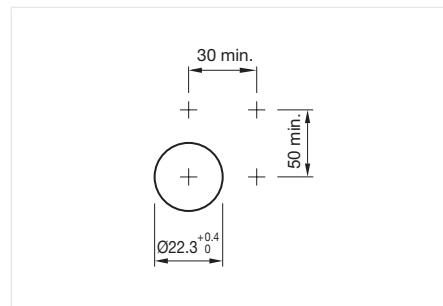
04 Raised design

Indicator full-face illumination, square, IP65



Product can differ from the current configuration.

Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of (schematic overview)



Lens cap



Diffusor cap



Actuator



Bayonet flange



LED

Page 204



Lamp block

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Housing colour | Housing material | Front bezel colour | Lens cap colour | Marking cap colour | Diffusor cap colour | Part No. | Wiring diagram |
|----------------|------------------|--------------------|-----------------|--------------------|---------------------|-----------|----------------|
| Grey | Plastic | Black | Red | White | White | 704.199.2 | 4 |
| | Plastic | Black | Yellow | White | White | 704.199.4 | 4 |
| | Plastic | Black | Green | White | White | 704.199.5 | 4 |
| | Plastic | Grey | Red | White | White | 704.200.2 | 4 |
| | Plastic | Grey | Yellow | White | White | 704.200.4 | 4 |
| | Plastic | Grey | Green | White | White | 704.200.5 | 4 |
| | Plastic | Grey | Blue | White | White | 704.200.6 | 4 |
| | Plastic | Grey | Colourless | White | White | 704.200.7 | 4 |

Wiring diagrams



Wiring diagram 4

Indicator full-face illumination, round, IP65

Equipment consisting of (schematic overview)



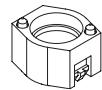
Lens cap



Marking cap



Actuator

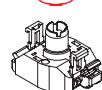


Bayonet flange



LED

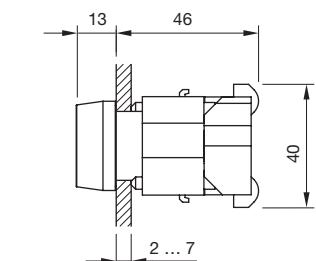
Page 204



Lamp block

Each Part Number listed below includes all the black components shown in the 3D-drawing.

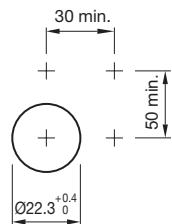
To obtain a complete unit, please select the red components from the pages shown.



Dimensions [mm]



Product can differ from the current configuration.



Mounting cut-outs [mm]



Actuator, Front dimension Ø 29 mm

| Housing colour | Housing material | Lens cap colour | Marking cap colour | Diffusor cap colour | Part No. | Wiring diagram |
|----------------|------------------|-----------------|--------------------|---------------------|-----------|----------------|
| Grey | Plastic | Red | White | White | 704.000.2 | 4 |
| | Plastic | Yellow | White | White | 704.000.4 | 4 |
| | Plastic | Green | White | White | 704.000.5 | 4 |
| | Plastic | Blue | White | White | 704.000.6 | 4 |
| | Plastic | Colourless | White | White | 704.000.7 | 4 |
| | Plastic | Red | Colourless | White | 704.001.2 | 4 |
| | Plastic | Yellow | Colourless | White | 704.001.4 | 4 |
| | Plastic | Green | Colourless | White | 704.001.5 | 4 |
| | Plastic | Blue | Colourless | White | 704.001.6 | 4 |
| | Plastic | Colourless | Colourless | White | 704.001.7 | 4 |

Wiring diagrams



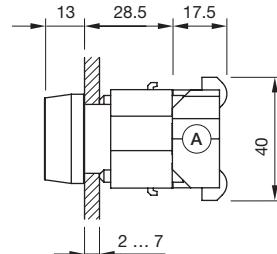
Wiring diagram 4

04 Raised design

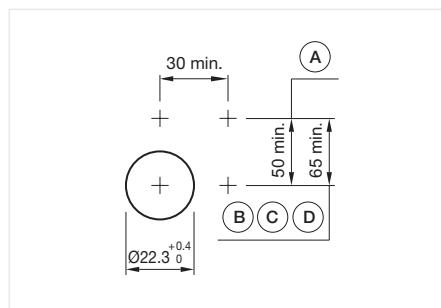
Indicator full-face illumination, square, IP65



Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



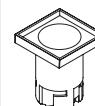
Lens cap

Page 200



Diffusor cap

Page 201



Actuator



Bayonet flange

Page 203



LED

Page 204



Lamp block

Page 210

Each Part Number listed below includes all the black components shown in the 3D-drawing.

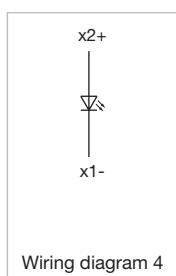
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Black | Plastic | 704.730.0 | 4 |
| Grey | Plastic | 704.730.1 | 4 |

Wiring diagrams



Wiring diagram 4

Indicator full-face illumination, round, IP65

Equipment consisting of (schematic overview)



Lens cap Page 200



Marking cap Page 201



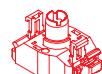
Actuator



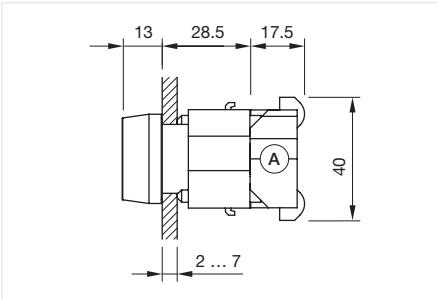
Bayonet flange Page 203



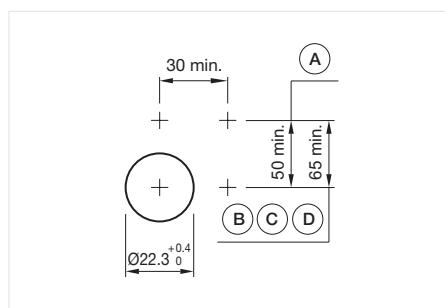
LED Page 204



Lamp block Page 210

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



Mounting cut-outs [mm]

A = Screw terminal
 B = Push-in terminal (PIT)
 C = Plug-in terminal 6.3 mm x 0.8 mm
 D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

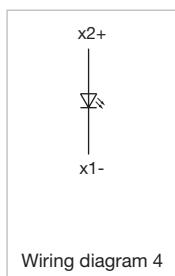
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

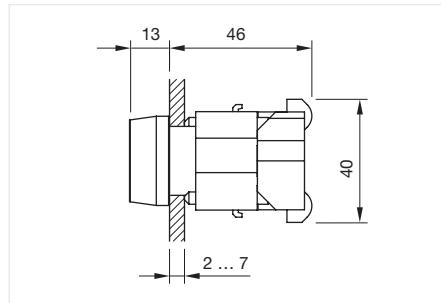
| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Grey | Plastic | 704.630.1 | 4 |

Wiring diagrams



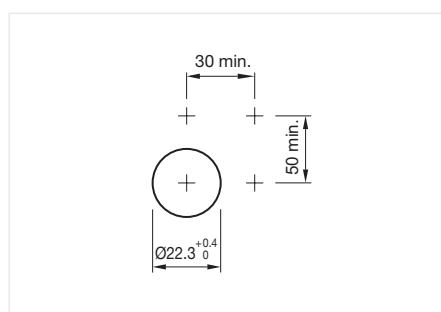
04 Raised design

Indicator front illumination, square, IP65



Product can differ from the current configuration.

Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of (schematic overview)



Front bezel



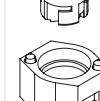
Lens



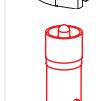
Lens holder



Actuator



Bayonet flange



LED

Page 204



Lamp block

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Housing colour | Housing material | Front bezel colour | Lens colour | Marking plate colour | Marking plate optics | Part No. | Wiring diagram |
|----------------|------------------|--------------------|-------------|----------------------|----------------------|-----------|----------------|
| Black | Plastic | Grey | Red | White | translucent | 704.202.2 | 4 |
| | Plastic | Grey | Yellow | White | translucent | 704.202.4 | 4 |
| | Plastic | Grey | Green | White | translucent | 704.202.5 | 4 |
| | Plastic | Grey | Colourless | White | translucent | 704.202.7 | 4 |
| | Plastic | Grey | Red | Colourless | transparent | 704.203.2 | 4 |
| | Plastic | Grey | Yellow | Colourless | transparent | 704.203.4 | 4 |
| | Plastic | Grey | Green | Colourless | transparent | 704.203.5 | 4 |
| | Plastic | Black | Red | White | translucent | 704.206.2 | 4 |
| | Plastic | Black | Yellow | White | translucent | 704.206.4 | 4 |
| | Plastic | Black | Green | White | translucent | 704.206.5 | 4 |
| | Plastic | Black | Blue | White | translucent | 704.206.6 | 4 |
| | Plastic | Black | Colourless | White | translucent | 704.206.7 | 4 |
| | Plastic | Black | Green | Colourless | transparent | 704.207.5 | 4 |

Wiring diagrams



Wiring diagram 4

01

02

03

04

09

14

17

18

19

22

31

41

45

51

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57

61

70

71

82

84

92

96



Modern. Tactile and long-lasting.
Series 04 illuminated selector switches.

Intuitive and reliable operation for enhanced safety in public transportation.

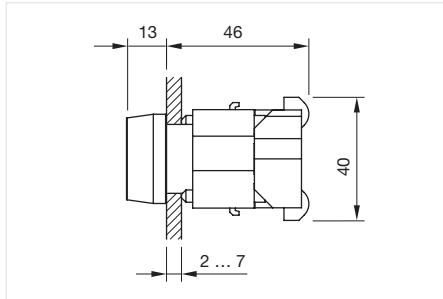
- Bright, single or bi-colour LED illumination
- Modern, ergonomic design
- Rounded edges (in accordance with DIN 5566-1)
- Excellent tactile feedback
- Long service life and robust construction
- Wide range of possible combinations and options

04 Raised design

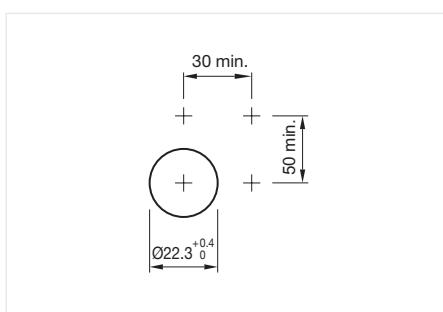
Indicator front illumination, round, IP65



Product can differ from the current configuration.



Dimensions [mm]



Mounting cut-outs [mm]

Equipment consisting of (schematic overview)



Front bezel



Lens



Marking Plate



Actuator



Bayonet flange



LED

Page 204



Lamp block

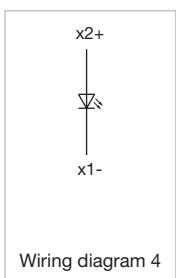
Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

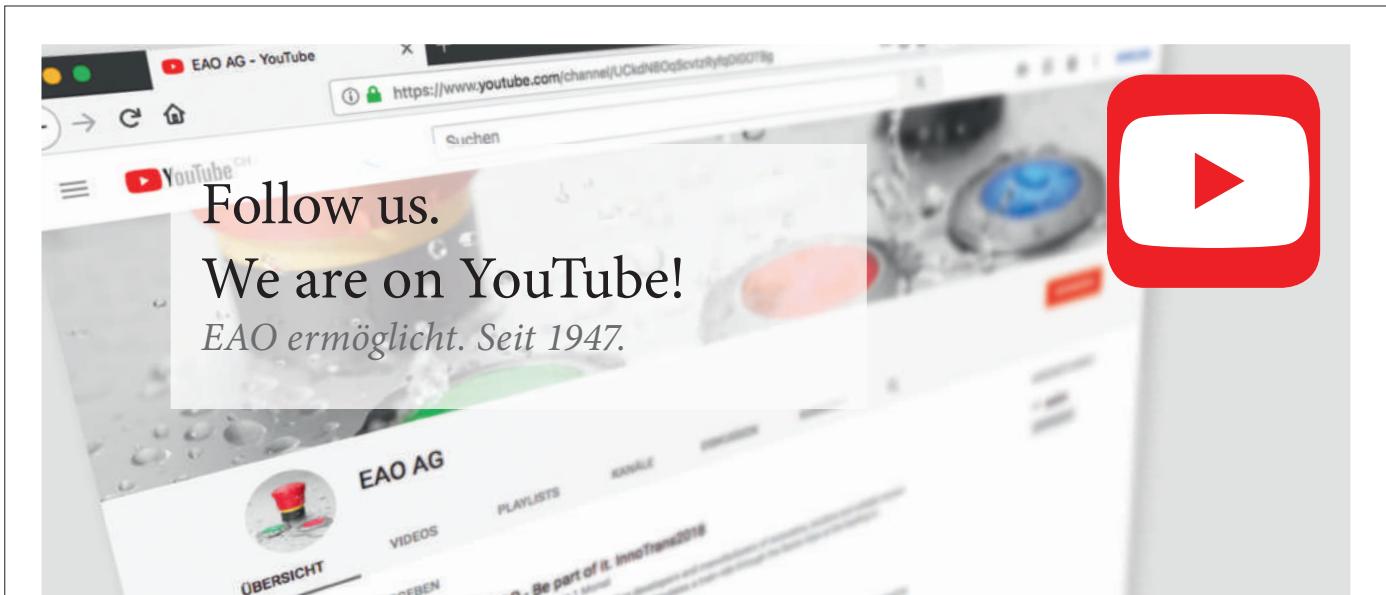


Actuator, Front dimension Ø 29 mm

| Product attributes | Housing colour | Housing material | Front bezel colour | Lens colour | Marking plate colour | Marking plate optics | Part No. | Wiring diagram |
|----------------------|----------------|------------------|--------------------|-------------|----------------------|----------------------|-----------|----------------|
| Filament lamp or LED | Grey | Plastic | Grey | Red | White | translucent | 704.002.2 | 4 |
| | Grey | Plastic | Grey | Yellow | White | translucent | 704.002.4 | 4 |
| | Grey | Plastic | Grey | Green | White | translucent | 704.002.5 | 4 |
| | Grey | Plastic | Grey | Blue | White | translucent | 704.002.6 | 4 |
| | Grey | Plastic | Grey | Colourless | White | translucent | 704.002.7 | 4 |
| | Grey | Plastic | Grey | Red | Colourless | transparent | 704.003.2 | 4 |
| | Grey | Plastic | Grey | Yellow | Colourless | transparent | 704.003.4 | 4 |
| | Grey | Plastic | Grey | Green | Colourless | transparent | 704.003.5 | 4 |
| | Grey | Plastic | Grey | Blue | Colourless | transparent | 704.003.6 | 4 |
| | Grey | Plastic | Grey | Colourless | Colourless | transparent | 704.003.7 | 4 |
| Filament lamp or LED | Grey | Plastic | Black | Red | White | translucent | 704.006.2 | 4 |
| | Grey | Plastic | Black | Yellow | White | translucent | 704.006.4 | 4 |
| | Grey | Plastic | Black | Green | White | translucent | 704.006.5 | 4 |
| | Grey | Plastic | Black | Blue | White | translucent | 704.006.6 | 4 |
| | Grey | Plastic | Black | Colourless | White | translucent | 704.006.7 | 4 |



Wiring diagram 4



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<https://www.youtube.com/user/eaoswitches>

<https://www.youtube.com/user/eaoswitches>

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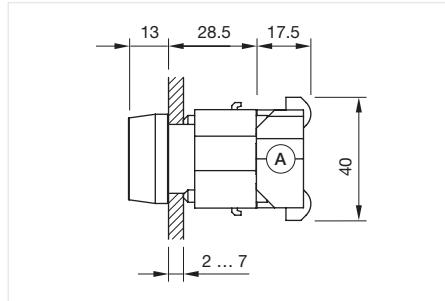
www.eao.com Your Expert Partner for Human Machine Interfaces

04 Raised design

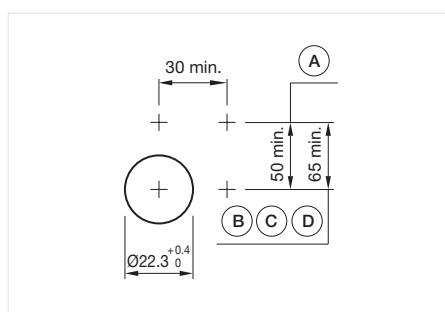
Indicator front illumination, square, IP65



Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Equipment consisting of (schematic overview)



Front bezel

Page 202



Lens

Page 199



Lens holder

Page 201



Actuator



Bayonet flange

Page 203



LED

Page 204



Lamp block

Page 210

Each Part Number listed below includes all the black components shown in the 3D-drawing.

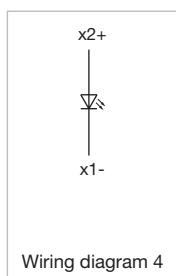
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Black | Plastic | 704.733.0 | 4 |
| Grey | Plastic | 704.733.1 | 4 |

Wiring diagrams



Wiring diagram 4

Indicator front illumination, round, IP65

Equipment consisting of (schematic overview)



Front bezel Page 202



Lens Page 199



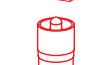
Marking Plate Page 201



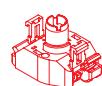
Actuator



Bayonet flange Page 203



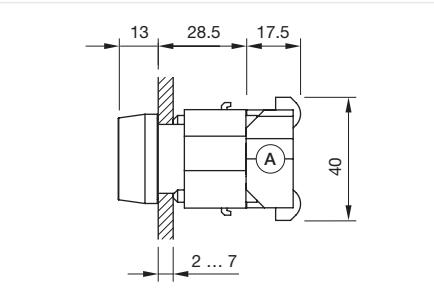
LED Page 204



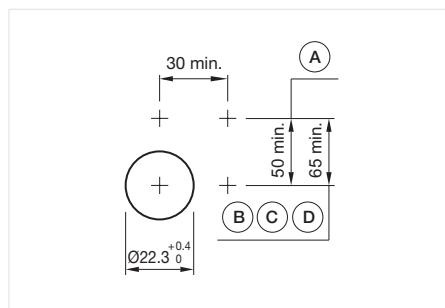
Lamp block Page 210

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



Mounting cut-outs [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

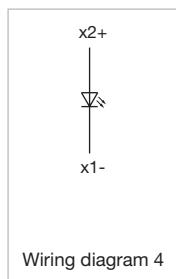
D = Double plug-in terminal 6.3 mm x 0.8 mm



Actuator, Front dimension Ø 29 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Grey | Plastic | 704.633.1 | 4 |

Wiring diagrams

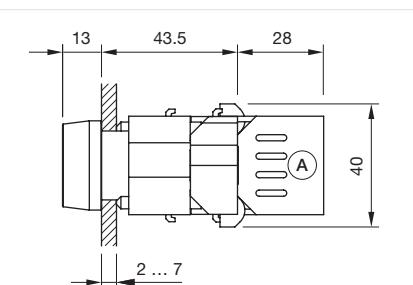


04 Raised design

Flasher full-face illumination, square, IP65



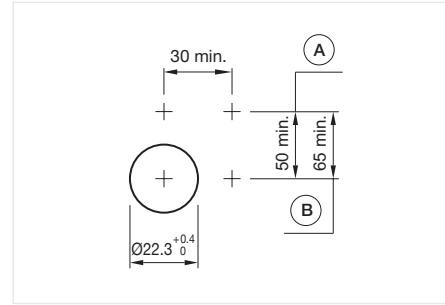
Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal

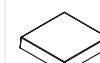
General information

- The lamp block will be delivered with screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

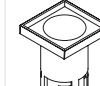
Equipment consisting of (schematic overview)



Lens cap



Diffusor cap



Actuator

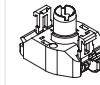


Bayonet flange



LED

Page 204



Lamp block



Flasher element

Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

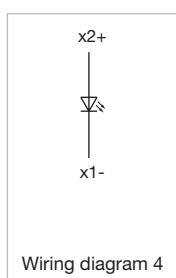
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Housing colour | Housing material | Front bezel colour | Front bezel material | Diffusor cap colour | Lens cap colour | Marking cap colour | Part No. | Wiring diagram |
|----------------|------------------|--------------------|----------------------|---------------------|-----------------|--------------------|-----------|----------------|
| Grey | Plastic | Black | Plastic | White | Red | White | 704.199.2 | 4 |
| | Plastic | Black | Plastic | White | Yellow | White | 704.199.4 | 4 |
| | Plastic | Black | Plastic | White | Green | White | 704.199.5 | 4 |
| | Plastic | Black | Plastic | White | Colourless | White | 704.199.7 | 4 |
| | Plastic | Grey | Plastic | White | Red | White | 704.200.2 | 4 |
| | Plastic | Grey | Plastic | White | Yellow | White | 704.200.4 | 4 |
| | Plastic | Grey | Plastic | White | Green | White | 704.200.5 | 4 |
| | Plastic | Grey | Plastic | White | Blue | White | 704.200.6 | 4 |
| | Plastic | Grey | Plastic | White | Colourless | White | 704.200.7 | 4 |

Wiring diagrams



Wiring diagram 4

Flasher full-face illumination, round, IP65

Equipment consisting of (schematic overview)



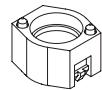
Lens cap



Marking cap



Actuator

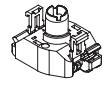


Bayonet flange



LED

Page 204



Lamp block

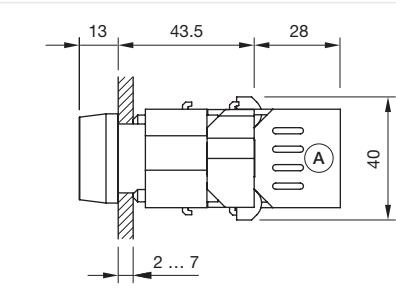


Flasher element

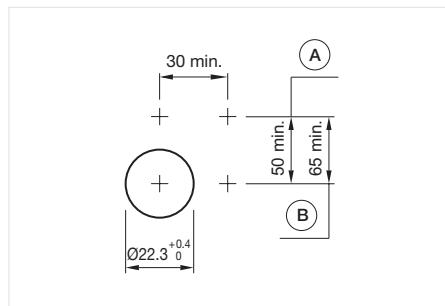
Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

General information

- The lamp block will be delivered with screw terminal



Actuator, Front dimension Ø 29 mm

| Housing colour | Housing material | Diffusor cap colour | Diffusor cap surface | Lens cap colour | Marking cap colour | Marking cap surface | Part No. | Wiring diagram |
|----------------|------------------|---------------------|----------------------|-----------------|--------------------|---------------------|-----------|----------------|
| Grey | Plastic | White | | Red | White | | 704.000.2 | 4 |
| | Plastic | White | | Yellow | White | | 704.000.4 | 4 |
| | Plastic | White | | Green | White | | 704.000.5 | 4 |
| | Plastic | White | | Blue | White | | 704.000.6 | 4 |
| | Plastic | White | | Colourless | White | | 704.000.7 | 4 |
| | Plastic | White | | Red | Colourless | ribbed | 704.001.2 | 4 |
| | Plastic | White | ribbed | Yellow | Colourless | ribbed | 704.001.4 | 4 |
| | Plastic | White | ribbed | Green | Colourless | ribbed | 704.001.5 | 4 |
| | Plastic | White | ribbed | Blue | Colourless | ribbed | 704.001.6 | 4 |
| | Plastic | White | ribbed | Colourless | Colourless | ribbed | 704.001.7 | 4 |

04 Raised design

Wiring diagrams

x2+
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x1-

Wiring diagram 4

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Flasher full-face illumination, square, IP65

Equipment consisting of (schematic overview)



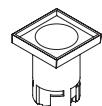
Lens cap

Page 200

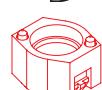
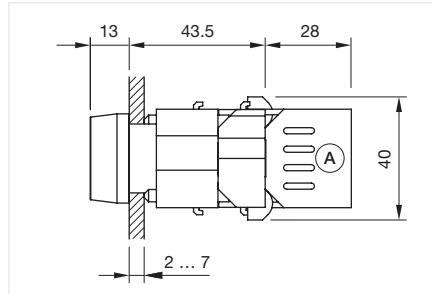


Diffuser cap

Page 201

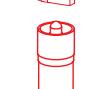


Actuator



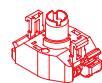
Bayonet flange

Page 203

Dimensions [mm]
A = Screw terminal

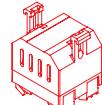
LED

Page 204



Lamp block

Page 210



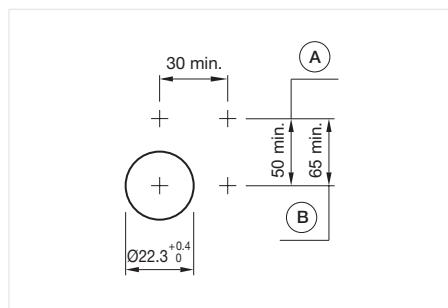
Flasher element

Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

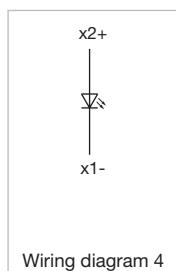
Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

Actuator, Front dimension 30 mm x 30 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Black | Plastic | 704.730.0 | 4 |
| Grey | Plastic | 704.730.1 | 4 |

Wiring diagrams

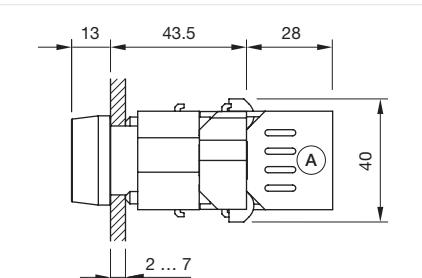
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04 Raised design

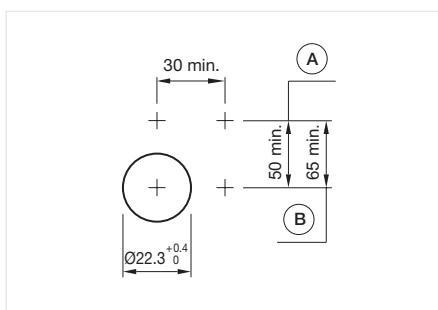
Flasher full-face illumination, round, IP65



Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

Equipment consisting of (schematic overview)



Lens cap

Page 200



Marking cap

Page 201

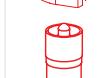


Actuator



Bayonet flange

Page 203



LED

Page 204



Lamp block

Page 210



Flasher element

Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

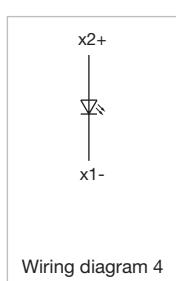
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Grey | Plastic | 704.630.1 | 4 |

Wiring diagrams



Wiring diagram 4

Flasher front illumination, square, IP65

Equipment consisting of (schematic overview)



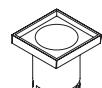
Front bezel



Lens



Lens holder



Actuator



Bayonet flange



LED

Page 204

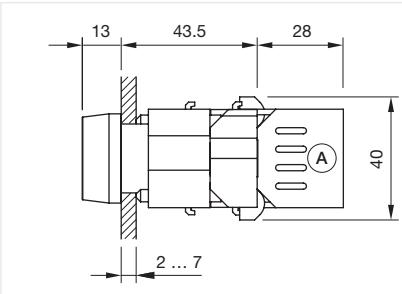


Lamp block

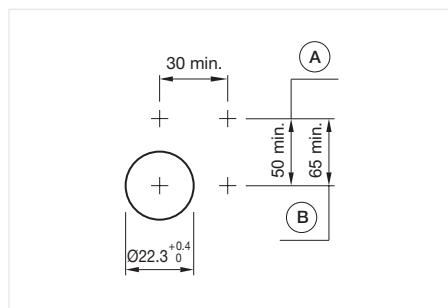


Flasher element

Page 235

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

General information

- The lamp block will be delivered with screw terminal

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Housing colour | Housing material | Lens colour | Front bezel colour | Front bezel material | Marking plate colour | Marking plate optics | Part No. | Wiring diagram |
|----------------|------------------|-------------|--------------------|----------------------|----------------------|----------------------|-----------|----------------|
| Black | Plastic | Red | Grey | Plastic | White | translucent | 704.202.2 | 4 |
| | Plastic | Yellow | Grey | Plastic | White | translucent | 704.202.4 | 4 |
| | Plastic | Green | Grey | Plastic | White | translucent | 704.202.5 | 4 |
| | Plastic | Blue | Grey | Plastic | White | translucent | 704.202.6 | 4 |
| | Plastic | Colourless | Grey | Plastic | White | translucent | 704.202.7 | 4 |
| | Plastic | Red | Grey | Plastic | Colourless | transparent | 704.203.2 | 4 |
| | Plastic | Yellow | Grey | Plastic | Colourless | transparent | 704.203.4 | 4 |
| | Plastic | Green | Grey | Plastic | Colourless | transparent | 704.203.5 | 4 |
| | Plastic | Colourless | Grey | Plastic | Colourless | transparent | 704.203.7 | 4 |
| | Plastic | Red | Black | Plastic | White | translucent | 704.206.2 | 4 |
| | Plastic | Yellow | Black | Plastic | White | translucent | 704.206.4 | 4 |
| | Plastic | Green | Black | Plastic | White | translucent | 704.206.5 | 4 |
| | Plastic | Blue | Black | Plastic | White | translucent | 704.206.6 | 4 |
| | Plastic | Colourless | Black | Plastic | White | translucent | 704.206.7 | 4 |
| | Plastic | Green | Black | Plastic | Colourless | transparent | 704.207.5 | 4 |

04 Raised design

Wiring diagrams



Wiring diagram 4



[On our website you can download technical data, assembly instructions, catalogs, brochures and much more.](http://www.eao.com/downloads)

Flasher front illumination, round, IP65

Equipment consisting of (schematic overview)



Front bezel



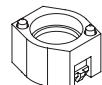
Lens



Marking Plate



Actuator

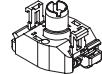


Bayonet flange



LED

Page 204



Lamp block

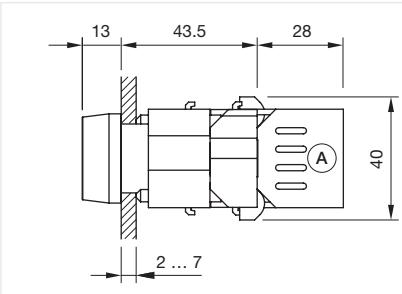


Flasher element

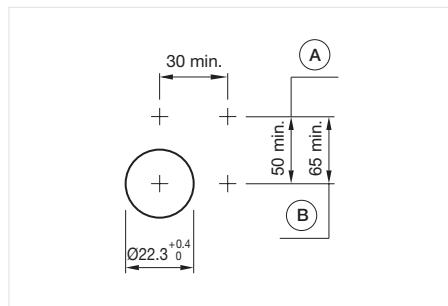
Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.

Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

General information

- The lamp block will be delivered with screw terminal



Actuator, Front dimension Ø 29 mm

| Housing colour | Housing material | Lens colour | Front bezel colour | Front bezel material | Marking plate colour | Marking plate optics | Part No. | Wiring diagram |
|----------------|------------------|-------------|--------------------|----------------------|----------------------|----------------------|-----------|----------------|
| Grey | Plastic | Red | Grey | Plastic | White | translucent | 704.002.2 | 4 |
| | Plastic | Yellow | Grey | Plastic | White | translucent | 704.002.4 | 4 |
| | Plastic | Green | Grey | Plastic | White | translucent | 704.002.5 | 4 |
| | Plastic | Blue | Grey | Plastic | White | translucent | 704.002.6 | 4 |
| | Plastic | Colourless | Grey | Plastic | White | translucent | 704.002.7 | 4 |
| | Plastic | Red | Grey | Plastic | Colourless | transparent | 704.003.2 | 4 |
| | Plastic | Yellow | Grey | Plastic | Colourless | transparent | 704.003.4 | 4 |
| | Plastic | Green | Grey | Plastic | Colourless | transparent | 704.003.5 | 4 |
| | Plastic | Blue | Grey | Plastic | Colourless | transparent | 704.003.6 | 4 |
| | Plastic | Colourless | Grey | Plastic | Colourless | transparent | 704.003.7 | 4 |
| | Plastic | Red | Black | Plastic | White | translucent | 704.006.2 | 4 |
| | Plastic | Yellow | Black | Plastic | White | translucent | 704.006.4 | 4 |
| | Plastic | Green | Black | Plastic | White | translucent | 704.006.5 | 4 |
| | Plastic | Blue | Black | Plastic | White | translucent | 704.006.6 | 4 |
| | Plastic | Colourless | Black | Plastic | White | translucent | 704.006.7 | 4 |

04 Raised design

Wiring diagrams

x2+
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x1-

Wiring diagram 4

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Flasher front illumination, square, IP65

Equipment consisting of (schematic overview)



Front bezel

Page 202



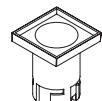
Lens

Page 199



Lens holder

Page 201



Actuator



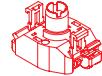
Bayonet flange

Page 203



LED

Page 204



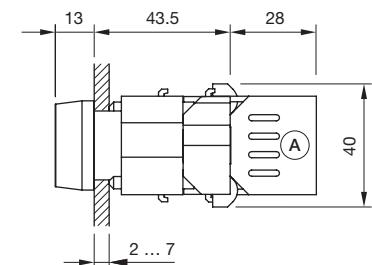
Lamp block

Page 210

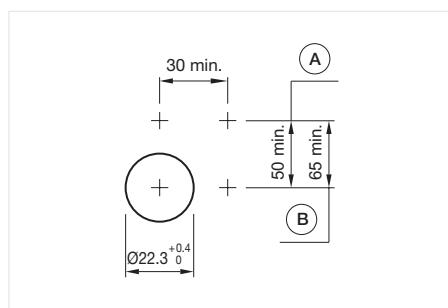


Flasher element

Page 235



Product can differ from the current configuration.



Each Part Number listed below includes all the black components shown in the 3D-drawing.

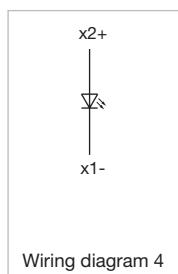
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension 30 mm x 30 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Black | Plastic | 704.733.0 | 4 |
| Grey | Plastic | 704.733.1 | 4 |

Wiring diagrams

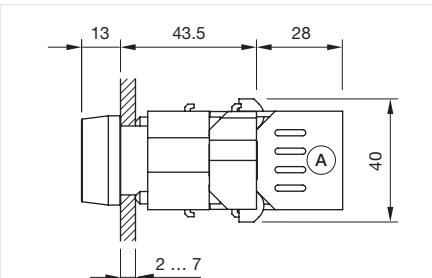


04 Raised design

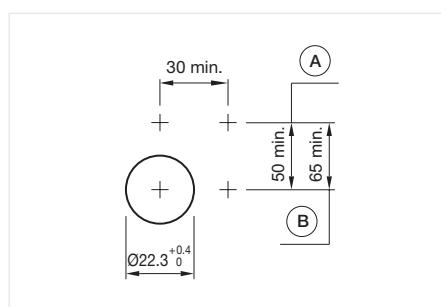
Flasher front illumination, round, IP65



Product can differ from the current configuration.



Dimensions [mm]
A = Screw terminal



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)

Equipment consisting of (schematic overview)



Front bezel

Page 202



Lens

Page 199



Marking Plate

Page 201

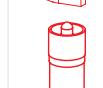


Actuator



Bayonet flange

Page 203



LED

Page 204



Lamp block

Page 210



Flasher element

Page 235

Each Part Number listed below includes all the black components shown in the 3D-drawing.

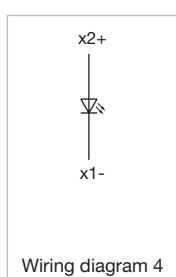
To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 29 mm

| Housing colour | Housing material | Part No. | Wiring diagram |
|----------------|------------------|-----------|----------------|
| Grey | Plastic | 704.633.1 | 4 |

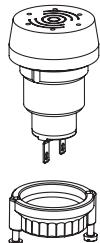
Wiring diagrams



Wiring diagram 4

Buzzer, IP65

Equipment consisting of (schematic overview)

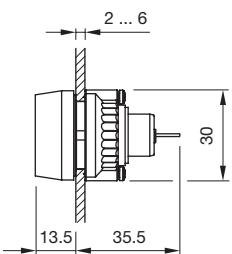


Actuator



Fixing nut

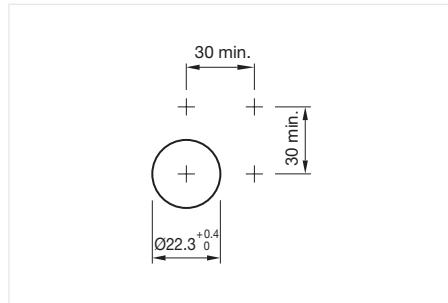
Each Part Number listed below includes all the black components shown in the 3D-drawing.



Dimensions [mm]



Product can differ from the current configuration.



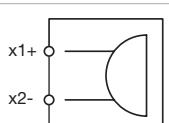
Mounting cut-outs [mm]



Actuator, Front dimension Ø 29 mm

| Terminal | Operating voltage | Front cap colour | Front cap material | Front cap surface | Part No. | Wiring diagram |
|------------------|-------------------|------------------|--------------------|-------------------|------------|----------------|
| Plug-in terminal | 24 V DC | Black | Plastic | | 14-810.002 | 71 |
| | 24 V DC | Nature | Aluminium | anodised | 14-810.902 | 71 |

Wiring diagrams



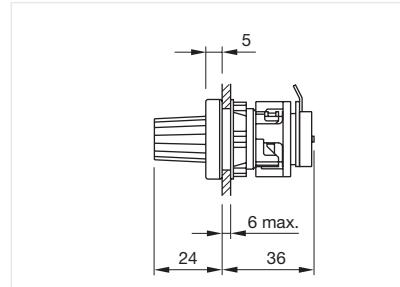
Wiring diagram 71

04 Raised design

Potentiometer, IP65



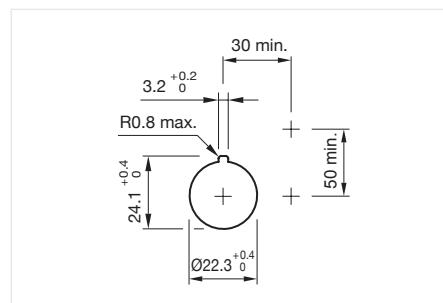
Product can differ from the current configuration.



Dimensions [mm]

General information

- Resistor 10 kOhm / linear, series E3



Mounting cut-outs [mm]

Equipment consisting of (schematic overview)



Lever



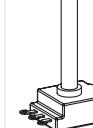
Actuator



Fixing nut



Mounting



Potentiometer

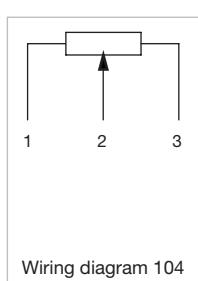
Each Part Number listed below includes all the black components shown in the 3D-drawing.



Actuator, Front dimension Ø 28 mm

| Housing material | Front bezel colour | Front bezel material | Front bezel surface | Resistance | Part No. | Wiring diagram |
|--|--------------------|----------------------|---------------------|------------|----------------|----------------|
| Plastic | | Metal | matt chrome | 10 kOhm | 44-745.20-10K1 | 104 |
| | Matt grey | Plastic | | 10 kOhm | 44-745.60-10K1 | 104 |
| Without potentiometer, specification for potentiometer: Shaft = length 32 mm, shaft end = Form A, Ø = 6 mm | | Metal | matt chrome | | 44-744.20 | |
| | Matt grey | Plastic | | | 44-744.60 | |

Wiring diagrams



Wiring diagram 104

Stop switch Ø 37 mm, IP65

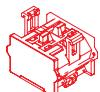
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

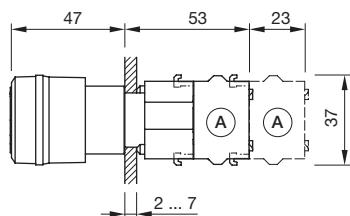


Switching element

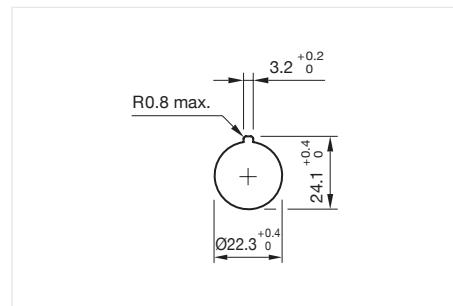
Page 213

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 2 switching elements can be clipped on



Actuator, Front dimension Ø 37 mm

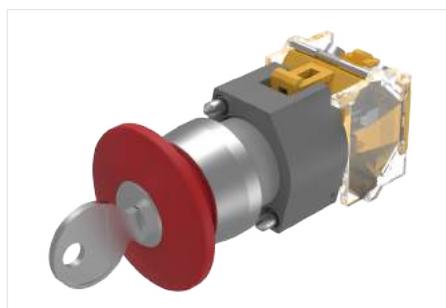
| Switching action | Housing colour | Housing material | Lens colour | Marking | Product attributes | Part No. | Wiring diagram |
|------------------|----------------|------------------|-------------|---------|---------------------------|-----------|----------------|
| Maintained | Yellow | Plastic | Red | Arrows | Twist to unlock clockwise | 704.064.2 | 363 |
| | Yellow | Plastic | Red | Arrows | Key to unlock clockwise | 704.066.2 | 364 |

Wiring diagrams

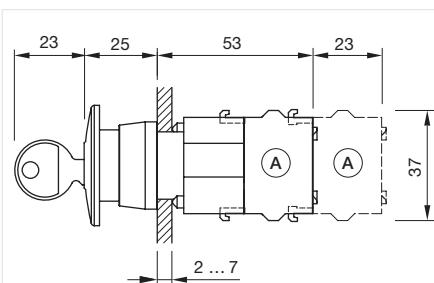
| | |
|--------------------|--------------------|
| | |
| Wiring diagram 363 | Wiring diagram 364 |

04 Raised design

Stop switch Ø 40 mm, IP65



Product can differ from the current configuration.

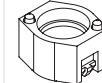


Dimensions [mm]
A = Screw terminal

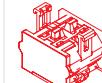
Equipment consisting of (schematic overview)



Actuator



Bayonet flange

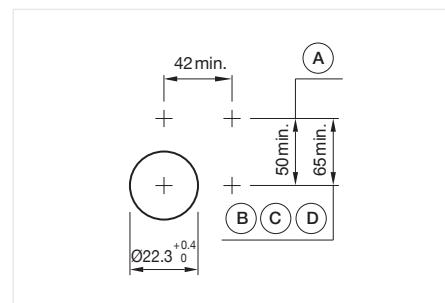


Switching element

Page 213

General information

- The standard lock Ronis 251
- The colour of anodised aluminium parts can vary due to technical production reasons



Mounting cut-outs [mm]
A = Screw terminal
B = Push-in terminal (PIT)
C = Plug-in terminal 6.3 mm x 0.8 mm
D = Double plug-in terminal 6.3 mm x 0.8 mm

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.



Actuator, Front dimension Ø 40 mm

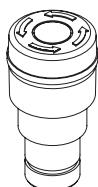
| Switching action | Housing colour | Housing material | Lens colour | Marking | Product attributes | Front bezel colour | Front bezel material | Front bezel surface | Part No. | Wiring diagram |
|------------------|----------------|------------------|-------------|---------|---------------------------|--------------------|----------------------|---------------------|-----------|----------------|
| Maintained | Grey | Plastic | Red | Arrows | Twist to unlock clockwise | Grey | Plastic | | 704.074.2 | 363 |
| | Grey | Plastic | Red | Stop | Twist to unlock clockwise | Grey | Plastic | | 704.074.3 | 363 |
| | Grey | Plastic | Red | Arrows | Twist to unlock clockwise | Nature | Aluminium | anodised | 704.075.2 | 363 |
| | Grey | Plastic | Red | Stop | Twist to unlock clockwise | Nature | Aluminium | anodised | 704.075.3 | 363 |
| | Grey | Plastic | Red | | Key to unlock clockwise | Grey | Plastic | | 704.076.0 | 364 |
| | Grey | Plastic | Red | | Key to unlock clockwise | Nature | Aluminium | anodised | 704.078.0 | 364 |

Wiring diagrams

| | |
|--------------------|--------------------|
| | |
| Wiring diagram 363 | Wiring diagram 364 |

Emergency stop switch, foolproof EN IEC 60974-5-5, IP65

Equipment consisting of (schematic overview)



Actuator



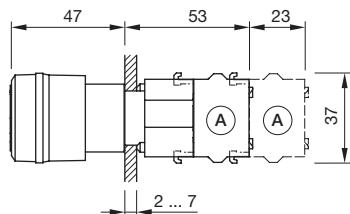
Bayonet flange



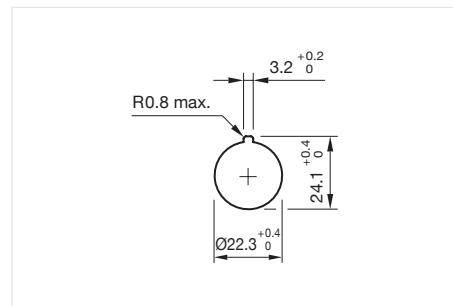
Switching element Page 223

Each Part Number listed below includes all the black components shown in the 3D-drawing.

To obtain a complete unit, please select the red components from the pages shown.

Dimensions [mm]
A = Screw terminal

Product can differ from the current configuration.



General information

- Max. 2 switching elements can be clipped on
- Shaft yellow



Actuator, Front dimension Ø 37 mm

| Switching action | Housing colour | Housing material | Lens colour | Marking | Product attributes | Part No. | Wiring diagram |
|------------------|----------------|------------------|-------------|---------|--------------------------------------|------------|----------------|
| Maintained | Yellow | Plastic | Red | Arrows | Twist to unlock anti-clockwise | 704.064.2A | 363 |
| | Yellow | Plastic | Red | Arrows | Key release to unlock anti-clockwise | 704.066.2A | 364 |

Wiring diagrams



Wiring diagram 363



Wiring diagram 364

04 Raised design

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Lens plastic raised

| Lens material | Lens colour | Lens optics | Lens shape | Lens illumination | Dimensions | Part No. |
|---------------|-------------|-------------|------------|-------------------|------------|-----------|
| Plastic | Red | transparent | flush | illuminative | Ø 23,7 mm | 704.611.2 |
| | Yellow | transparent | flush | illuminative | Ø 23,7 mm | 704.611.4 |
| | Green | transparent | flush | illuminative | Ø 23,7 mm | 704.611.5 |
| | Blue | transparent | flush | illuminative | Ø 23,7 mm | 704.611.6 |
| | Colourless | transparent | flush | illuminative | Ø 23,7 mm | 704.611.7 |

Additional information

- To obtain IP67, use marking plate Part Nr. 704.610.X



Lens plastic square

| Lens material | Lens colour | Lens optics | Lens shape | Lens illumination | Dimensions | Part No. |
|---------------|-------------|-------------|------------|-------------------|-------------------|-----------|
| Plastic | Black | opaque | flush | non illuminative | 24,4 mm x 24,4 mm | 704.702.0 |
| | White | opaque | flush | non illuminative | 24,4 mm x 24,4 mm | 704.702.9 |
| | Red | transparent | flush | illuminative | 24,4 mm x 24,4 mm | 704.702.2 |
| | Yellow | transparent | flush | illuminative | 24,4 mm x 24,4 mm | 704.702.4 |
| | Green | transparent | flush | illuminative | 24,4 mm x 24,4 mm | 704.702.5 |
| | Blue | transparent | flush | illuminative | 24,4 mm x 24,4 mm | 704.702.6 |
| | Colourless | transparent | flush | illuminative | 24,4 mm x 24,4 mm | 704.702.7 |



Lens metal round spot round

| Lens material | Lens colour | Lens optics | Lens shape | Lens illumination | Dimensions | Part No. |
|-----------------|-------------|-------------|------------|-------------------|------------|-------------|
| Aluminium | Black | opaque | flush | illuminative | Ø 23,7 mm | 704.601.01 |
| | Red | opaque | flush | illuminative | Ø 23,7 mm | 704.601.21 |
| | Gold | opaque | flush | illuminative | Ø 23,7 mm | 704.601.41 |
| | Olive green | opaque | flush | illuminative | Ø 23,7 mm | 704.601.51 |
| | Blue | opaque | flush | illuminative | Ø 23,7 mm | 704.601.61 |
| | Nature | opaque | flush | illuminative | Ø 23,7 mm | 704.601.81 |
| Stainless steel | Nature | opaque | flush | illuminative | Ø 23,7 mm | 704.601.91 |
| | Nature | opaque | flush | illuminative | Ø 23,7 mm | 704.601.101 |

Additional information

- The colour of anodised aluminium parts can vary due to technical production reasons
- To obtain IP65, it is necessary to use marking plate Part No.. 704.609.X

04 Components



Lens metal round

| Lens material | Lens colour | Lens optics | Lens shape | Lens illumination | Dimensions | Part No. |
|-----------------|-------------|-------------|------------|-------------------|------------|------------|
| Aluminium | Black | opaque | flush | non illuminative | Ø 23,7 mm | 704.601.0 |
| | Red | opaque | flush | non illuminative | Ø 23,7 mm | 704.601.2 |
| | Gold | opaque | flush | non illuminative | Ø 23,7 mm | 704.601.4 |
| | Olive green | opaque | flush | non illuminative | Ø 23,7 mm | 704.601.5 |
| | Blue | opaque | flush | non illuminative | Ø 23,7 mm | 704.601.6 |
| | Nature | opaque | flush | non illuminative | Ø 23,7 mm | 704.601.8 |
| Stainless steel | Nature | opaque | flush | non illuminative | Ø 23,7 mm | 704.601.9 |
| | Nature | opaque | flush | non illuminative | Ø 23,7 mm | 704.601.10 |

Additional information

- The colour of anodised aluminium parts can vary due to technical production reasons
- To obtain IP65, it is necessary to use marking plate Part No.. 704.609.X



Lens plastic round

| Lens material | Lens colour | Lens optics | Lens shape | Lens illumination | Symbol | Dimensions | Part No. |
|---------------|-------------|-------------|------------|-------------------|--------|------------|--------------|
| Plastic | Black | opaque | flush | non illuminative | | Ø 23,7 mm | 704.602.0 |
| | Red | transparent | flush | illuminative | | Ø 23,7 mm | 704.602.2 |
| | Yellow | transparent | flush | illuminative | | Ø 23,7 mm | 704.602.4 |
| | Green | transparent | flush | illuminative | | Ø 23,7 mm | 704.602.5 |
| | Blue | transparent | flush | illuminative | | Ø 23,7 mm | 704.602.6 |
| | Colourless | transparent | flush | illuminative | | Ø 23,7 mm | 704.602.7 |
| | Silver | transparent | flush | illuminative | Ring | Ø 23,7 mm | 704.602.7A01 |

Additional information

- To obtain IP67, use marking plate Part No. 704.609.9
- To obtain IP67 use marking plate Part No. 704.609.9A01 (ring illumination)



Lens cap round for full face indicator

| Lens cap material | Lens cap colour | Lens cap optical effect | Diameter | Part No. |
|-------------------|-----------------|-------------------------|----------|-----------|
| Plastic | Red | transparent | 29 mm | 704.603.2 |
| | Yellow | transparent | 29 mm | 704.603.4 |
| | Green | transparent | 29 mm | 704.603.5 |
| | Blue | transparent | 29 mm | 704.603.6 |
| | Colourless | transparent | 29 mm | 704.603.7 |

Additional information

- To obtain IP67, use marking plate Part Nr. 704.608.X



Lens holder

| Marking plate material | Marking plate colour | Marking plate illumination | Part No. |
|------------------------|----------------------|----------------------------|-----------|
| Plastic | Colourless | illuminative | 704.709.7 |
| | White | illuminative | 704.709.9 |

Additional information

- For square lens



Marking cap for lens cap round

| Marking cap material | Marking cap colour | Marking cap optics | Dimensions | Marking cap surface | Part No. |
|----------------------|--------------------|--------------------|------------|---------------------|-----------|
| Plastic | Colourless | transparent | Ø 29 mm | ribbed | 704.608.7 |
| | White | translucent | Ø 29 mm | | 704.608.9 |



Marking cap round raised profile

| Marking cap material | Marking cap colour | Marking cap optics | Dimensions | Marking cap surface | Part No. |
|----------------------|--------------------|--------------------|------------|---------------------|-----------|
| Plastic | Colourless | transparent | Ø 29 mm | ribbed | 704.610.7 |
| | White | translucent | Ø 29 mm | | 704.610.9 |



Marking cap round flat

| Marking plate material | Marking plate colour | Marking plate optics | Marking plate illumination | Part No. |
|------------------------|----------------------|----------------------|----------------------------|--------------|
| Plastic | Black | opaque | non illuminative | 704.609.0 |
| | Colourless | transparent | illuminative | 704.609.7 |
| | White | translucent | illuminative | 704.609.9 |
| | White | translucent | ring illumination | 704.609.9A01 |



Diffusor cap

| Product attributes | Diffusor cap colour | Diffusor cap optics | Diffusor cap illumination | Part No. |
|--------------------|---------------------|---------------------|---------------------------|-----------|
| | Colourless | transparent | illuminative | 704.708.7 |
| Can be marked | White | translucent | illuminative | 704.708.9 |

04 Components



Front bezel round, raised design

| Front bezel material | Front bezel colour | Front bezel surface | Dimensions | Part No. |
|----------------------|--------------------|---------------------|-----------------|------------|
| Plastic | Black | | Ø 29 mm | 704.600.0 |
| | Grey | | Ø 29 mm | 704.600.6 |
| | Grey | | Ø 29 mm x 16 mm | 704.600.7 |
| Aluminium | Nature | anodised | Ø 29 mm | 704.600.1 |
| | Black | anodised | Ø 29 mm | 704.600.1A |
| Stainless steel | Nature | | Ø 29 mm | 704.600.9 |

Additional information

- The colour of anodised aluminium parts can vary due to technical production reasons



Front bezel square, raised design

| Front bezel material | Front bezel colour | Front bezel surface | Dimensions | Part No. |
|----------------------|--------------------|---------------------|---------------|-----------|
| Plastic | Black | | 30 mm x 30 mm | 704.701.0 |
| | Chrome coloured | chrome plated | 30 mm x 30 mm | 704.701.4 |
| | Grey | | 30 mm x 30 mm | 704.701.6 |



Front bezel set flush design

| Front bezel material | Front bezel colour | Front bezel surface | Dimensions | Part No. |
|----------------------|--------------------|---------------------|------------|------------|
| Aluminium | Black | anodised | Ø 35 mm | 704.955.0 |
| | Nature | anodised | Ø 35 mm | 704.955.1 |
| Stainless steel 304 | Nature | | Ø 35 mm | 704.955.9 |
| | Nature | | Ø 35 mm | 704.955.10 |

Additional information

- The colour of anodised aluminium parts can vary due to technical production reasons



Front bezel set protective membrane

| Product attributes | Front bezel material | Front bezel colour | Front bezel surface | Dimensions | Part No. |
|--|----------------------|--------------------|---------------------|------------|------------|
| With transparent silicone membrane | Aluminium | Nature | anodised | Ø 35 mm | 704.955.3 |
| | Aluminium | Black | anodised | Ø 35 mm | 704.955.4 |
| With transparent silicone membrane, resistant to sea water | Stainless steel | Nature | | Ø 35 mm | 704.955.9E |

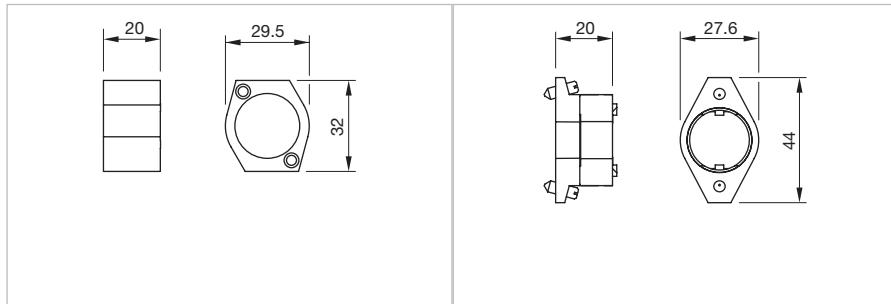
Additional information

- The colour of anodised aluminium parts can vary due to technical production reasons
- Front bezel to be mounted with a torque of 0.4 Nm onto actuator
- Before assembling remove the flat gasket of the switch



Bayonet flange

| Material | Part No. |
|----------|-----------|
| plastic | 704.950.5 |
| metal | 704.960.5 |

Dimensions [mm]
for Part No. 704.950.5Dimensions [mm]
for Part No. 704.960.5

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04 Components

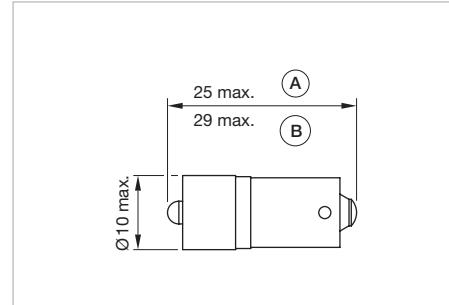


Single-LED, BA9s

| Illumination colour | Operating voltage | Operation current | Lumi. Intensity | Dom. Wavelength | Part No. | Wiring diagram |
|---------------------|-------------------|-------------------|-----------------|----------------------|--------------|----------------|
| Red | 6 V DC +10% | 17 mA ±15 % | 400 mcd | 630 nm | 10-2506.1082 | 70 |
| | 12 V AC/DC +10% | 16 mA ±15 % | 390 mcd | 630 nm | 10-2509.1142 | 70 |
| | 24 V AC/DC +10% | 15 mA ±15 % | 350 mcd | 630 nm | 10-2512.1142 | 70 |
| | 28 V AC/DC +10% | 13 mA ±15 % | 300 mcd | 630 nm | 10-2513.1142 | 70 |
| | 48 V AC/DC +10% | 8 mA ±15 % | 200 mcd | 630 nm | 10-2519.1052 | 70 |
| | 130 V DC +10% | 3 mA ±15 % | 120 mcd | 630 nm | 10-2524.3042 | 70 |
| | 130 V AC +10% | 5 mA ±15 % | 180 mcd | 630 nm | 10-2H24.2052 | 70 |
| | 230 V AC +10% | 3 mA ±15 % | 120 mcd | 630 nm | 10-2H25.2042 | 70 |
| Yellow | 6 V DC +10% | 17 mA ±15 % | 340 mcd | 587 nm | 10-2506.1084 | 70 |
| | 12 V AC/DC +10% | 16 mA ±15 % | 340 mcd | 587 nm | 10-2509.1144 | 70 |
| | 24 V AC/DC +10% | 15 mA ±15 % | 300 mcd | 587 nm | 10-2512.1144 | 70 |
| | 28 V AC/DC +10% | 13 mA ±15 % | 270 mcd | 587 nm | 10-2513.1144 | 70 |
| | 48 V AC/DC +10% | 8 mA ±15 % | 180 mcd | 587 nm | 10-2519.1054 | 70 |
| | 130 V DC +10% | 3 mA ±15 % | 110 mcd | 587 nm | 10-2524.3044 | 70 |
| | 130 V AC +10% | 5 mA ±15 % | 160 mcd | 587 nm | 10-2H24.2054 | 70 |
| | 230 V AC +10% | 3 mA ±15 % | 110 mcd | 587 nm | 10-2H25.2044 | 70 |
| Green | 6 V DC +10% | 7 mA ±15 % | 1050 mcd | 525 nm | 10-2506.1085 | 70 |
| | 12 V AC/DC +10% | 7 mA ±15 % | 1050 mcd | 525 nm | 10-2509.1145 | 70 |
| | 24 V AC/DC +10% | 7 mA ±15 % | 1050 mcd | 525 nm | 10-2512.1145 | 70 |
| | 28 V AC/DC +10% | 7 mA ±15 % | 1050 mcd | 525 nm | 10-2513.1145 | 70 |
| | 48 V AC/DC +10% | 4 mA ±15 % | 600 mcd | 525 nm | 10-2519.1055 | 70 |
| | 130 V DC +10% | 2 mA ±15 % | 300 mcd | 525 nm | 10-2524.3045 | 70 |
| | 130 V AC +10% | 3 mA ±15 % | 450 mcd | 525 nm | 10-2H24.2055 | 70 |
| | 230 V AC +10% | 2 mA ±15 % | 300 mcd | 525 nm | 10-2H25.2045 | 70 |
| Blue | 6 V DC +10% | 17 mA ±15 % | 780 mcd | 470 nm | 10-2506.1086 | 70 |
| | 12 V AC/DC +10% | 16 mA ±15 % | 720 mcd | 470 nm | 10-2509.1146 | 70 |
| | 24 V AC/DC +10% | 15 mA ±15 % | 680 mcd | 470 nm | 10-2512.1146 | 70 |
| | 28 V AC/DC +10% | 13 mA ±15 % | 590 mcd | 470 nm | 10-2513.1146 | 70 |
| | 48 V AC/DC +10% | 8 mA ±15 % | 400 mcd | 470 nm | 10-2519.1056 | 70 |
| | 130 V DC +10% | 3 mA ±15 % | 200 mcd | 470 nm | 10-2524.3046 | 70 |
| | 130 V AC +10% | 5 mA ±15 % | 230 mcd | 470 nm | 10-2H24.2056 | 70 |
| | 230 V AC +10% | 3 mA ±15 % | 200 mcd | 470 nm | 10-2H25.2046 | 70 |
| White | 6 V DC +10% | 5 mA ±15 % | 750 mcd | x: 0.31 / y: 0.32 nm | 10-2506.1089 | 70 |
| | 12 V AC/DC +10% | 8 mA ±15 % | 1200 mcd | x: 0.31 / y: 0.32 nm | 10-2509.1149 | 70 |
| | 24 V AC/DC +10% | 7 mA ±15 % | 1050 mcd | x: 0.31 / y: 0.32 nm | 10-2512.1149 | 70 |
| | 28 V AC/DC +10% | 5 mA ±15 % | 750 mcd | x: 0.31 / y: 0.32 nm | 10-2513.1149 | 70 |
| | 48 V AC/DC +10% | 5 mA ±15 % | 750 mcd | x: 0.31 / y: 0.32 nm | 10-2519.1059 | 70 |
| | 130 V DC +10% | 1,5 mA ±15 % | 225 mcd | x: 0.31 / y: 0.32 nm | 10-2524.3049 | 70 |
| | 130 V AC +10% | 2 mA ±15 % | 300 mcd | x: 0.31 / y: 0.32 nm | 10-2H24.2059 | 70 |
| | 230 V AC +10% | 1,5 mA ±15 % | 225 mcd | x: 0.31 / y: 0.32 nm | 10-2H25.2049 | 70 |

Additional information

- The specified 6 V DC, 24 V DC Bi-colour, 130 V AC, 130 V DC and 230 V AC versions are built with a protection diode
- The specified 12, 24, 28, 48 VAC/DC versions are built with a bridge rectifier
- The specified 130 VAC types are developed to run on a supply voltage of 130 VAC only
- An operation at a higher supply voltage using commercial lampholders with integrated resistors, is not approved
- If the 24VDC Bi-colour lamp is driven with normal polarity (plus on middle contact of the lamp) the first mentioned colour will light up, with inverted polarity the second colour will light up
- The luminous intensity stated is for when used with DC
- Electrical and optical data are measured at 25 °C
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination. The customer has to decide what resistor shall be used to the LED



Dimensions [mm]

Wiring diagrams



Wiring diagram 70

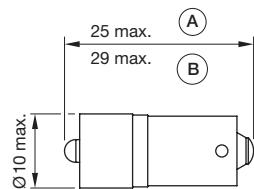


Single-LED super bright

| Illumination colour | Operating voltage | Operation current | Lumi. Intensity | Dom. Wavelength | Part No. | Wiring diagram |
|---------------------|-------------------|-------------------|-----------------|-----------------|---------------|----------------|
| Red | 28 V AC/DC +10% | 14 mA ±15 % | 7700 mcd | 630 nm | 10-2413.1132R | 70 |
| Green | 28 V AC/DC +10% | 13 mA ±15 % | 12400 mcd | 525 nm | 10-2413.1125R | 70 |
| Yellow | 28 V AC/DC +10% | 14 mA ±15 % | 4200 mcd | 589 nm | 10-2413.1134R | 70 |

Additional information

- The specified 12, 24, 28, 48 VAC/DC versions are built with a bridge rectifier
- Electrical and optical data are measured at 25 °C
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination. The customer has to decide what resistor shall be used to the LED

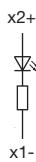


Dimensions [mm]

A = (standard)

B = (super bright)

Wiring diagrams



Wiring diagram 70

04 Components

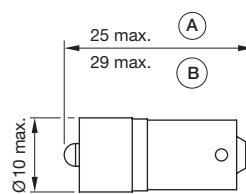


Single-LED with integrated Zener diode, BA9s

| Illumination colour | Operating voltage | Operation current | Lumi. Intensity | Dom. Wavelength | Part No. | Wiring diagram |
|---------------------|-------------------|-----------------------|-----------------|-----------------|---------------|----------------|
| Red | 24 - 30 V DC +10% | 13 - 19 mA $\pm 15\%$ | 300 - 440 mcd | 630 nm | 10-2H13.3162Q | 367 |
| Green | 24 - 30 V DC +10% | 12 - 18 mA $\pm 15\%$ | 1800 - 2700 mcd | 525 nm | 10-2H13.3165Q | 367 |
| Yellow | 24 - 30 V DC +10% | 13 - 19 mA $\pm 15\%$ | 270 - 380 mcd | 589 nm | 10-2H13.3164Q | 367 |
| Blue | 24 - 30 V DC +10% | 12 - 18 mA $\pm 15\%$ | 560 - 800 mcd | 589 nm | 10-2H13.3166Q | 367 |
| White | 24 - 30 V DC +10% | 7 - 11 mA $\pm 15\%$ | 600 - 900 mcd | 589 nm | 10-2H13.3169Q | 367 |

Additional information

- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination. The customer has to decide what resistor shall be used to the LED
- Electrical and optical data are measured at 25 °C
- The specified 12, 24, 28, 48 VAC/DC versions are built with a bridge rectifier

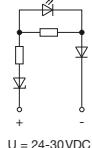


Dimensions [mm]

A = (standard)

B = (super bright)

Wiring diagrams



Wiring diagram 469

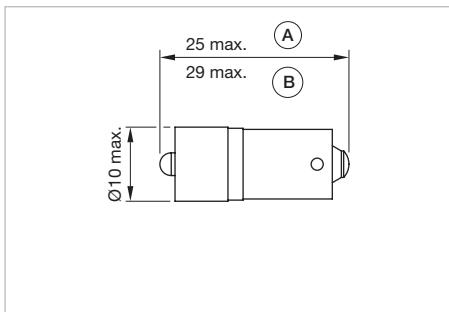


Bi-colour LED, BA9s

| Illumination colour | Operating voltage | Operation current | Lumi. Intensity | Dom. Wavelength | Product attributes | Part No. | Wiring diagram |
|---------------------|-------------------|-------------------|-----------------|-----------------|--------------------------------|--------------|----------------|
| Red / Green | 24 V AC/DC +10% | 15 mA $\pm 15\%$ | 1200/900 mcd | 625 / 525 nm | X2: + = Red / X1: + = Green | 10-2H12.314A | 171 |
| Red / Yellow | 24 V AC/DC +10% | 15 mA $\pm 15\%$ | 1200/550 mcd | 625 / 589 nm | X2: + = Red / X1: + = Yellow | 10-2H12.314B | 171 |
| Green / Yellow | 24 V AC/DC +10% | 15 mA $\pm 15\%$ | 900/550 mcd | 525 / 589 nm | X2: + = Yellow / X1: + = Green | 10-2H12.314C | 171 |

Additional information

- The max. overall length of the lamp may not exceed 25mm
- Electrical and optical data are measured at 25 °C
- The specified 6 V DC, 24 V DC Bi-colour; 130 V AC, 130 V DC and 230 V AC versions are built with a protection diode
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination. The customer has to decide what resistor shall be used to the LED

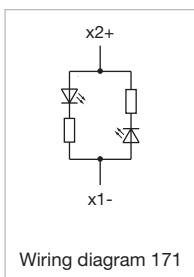


Dimensions [mm]

A = (standard)

B = (super bright)

Wiring diagrams



Wiring diagram 171

04 Components

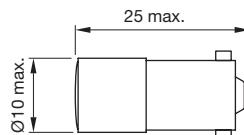


Multi-LED, BA9s, EN 50155, Fail Safe

| Illumination colour | Operating voltage | Operation current | Lumi. Intensity | Dom. Wavelength | Part No. | Wiring diagram |
|---------------------|-------------------|-------------------|-----------------|-----------------|---------------|----------------|
| Red | 72 V AC/DC | 2,2 mA -30%/+25% | 4 x 128 mcd | 625 nm | 10-4H21.1032P | 368 |
| | 110 V AC/DC | 2 mA -30%/+25% | 4 x 128 mcd | 625 nm | 10-4H22.1032P | 368 |
| Yellow | 72 V AC/DC | 2,2 mA -30%/+25% | 4 x 112 mcd | 589 nm | 10-4H21.1034P | 368 |
| | 110 V AC/DC | 2 mA -30%/+25% | 4 x 128 mcd | 589 nm | 10-4H22.1034P | 368 |
| Green | 72 V AC/DC | 2,2 mA -30%/+25% | 4 x 478 mcd | 525 nm | 10-4H21.1035P | 368 |
| | 110 V AC/DC | 2 mA -30%/+25% | 4 x 510 mcd | 525 nm | 10-4H22.1035P | 368 |
| Blue | 72 V AC/DC | 2,2 mA -30%/+25% | 4 x 90 mcd | 465 nm | 10-4H21.1036P | 368 |
| | 110 V AC/DC | 2 mA -30%/+25% | 4 x 86 mcd | 465 nm | 10-4H22.1036P | 368 |
| White | 72 V AC/DC | 2,2 mA -30%/+25% | 4 x 382 mcd | | 10-4H21.1039P | 368 |
| | 110 V AC/DC | 2 mA -30%/+25% | 4 x 446 mcd | | 10-4H22.1039P | 368 |

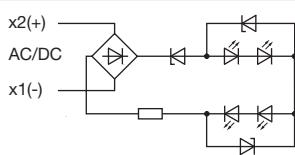
Additional information

- A suitable LED remover Part No. 700.006.0
- The luminous intensity stated is for when used with DC
- Electrical and optical data are measured at 25 °C
- The specified 72 and 110 VAC/VDC versions are built with a bridge rectifier
- The specified 72 and 110 VAC/VDC versions are built with a protection diode
- In case one LED fails, the other pair of still functioning LEDs is working. The light output then is half in order to indicate the malfunction and shows this way the need for replacement
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination. The customer has to decide what resistor shall be used to the LED



Dimensions [mm]

Wiring diagrams



Wiring diagram 368

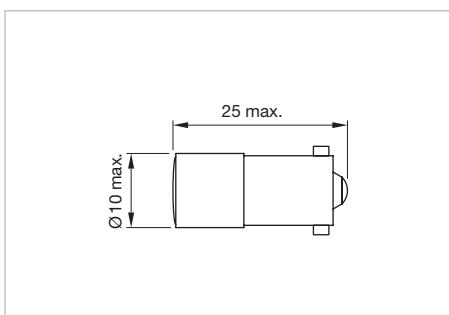


LED BA9s, EN 50155

| Illumination colour | Operating voltage | Operation current | Lumi. Intensity | Part No. | Wiring diagram |
|---------------------|-------------------|-------------------|-----------------|---------------|----------------|
| White | 24 V AC/DC | -30%/+25% | 700 mcd | 10-2412.1089P | 369 |

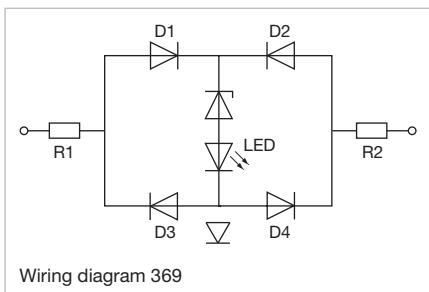
Additional information

- A suitable LED remover Part No. 700.006.0
- The luminous intensity stated is for when used with DC
- Electrical and optical data are measured at 25 °C
- The specified 24 VAC/VDC versions are built with a protection diode
- Specified 24 VAC/VDC versions are built with a bridge rectifier
- The new, white BA9s LED operates within a range of 16VDC to 34VDC. It conforms to the norms EN 50155 and IEEE 1476
- Luminosity and wave length variations caused by LED manufacturing processes may cause slight differences regarding the illumination. The customer has to decide what resistor shall be used to the LED



Dimensions [mm]

Wiring diagrams



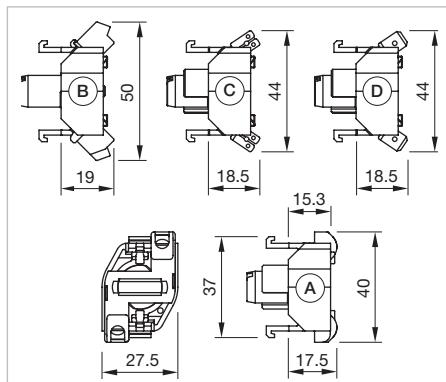
Wiring diagram 369

04 Components



Lamp block for selector switch and illuminated pushbutton, 2 positions

| Product attributes | Terminal kind of | Part No. | Wiring diagram |
|---|-------------------------|-------------|----------------|
| | Screw terminal | 704.950.0 | 4 |
| | Plug-in terminal | 704.950.1 | 4 |
| Terminals nickel plated and blank Cu/Sn | Double plug-in terminal | 704.950.1/D | 4 |
| | Push-in Terminal | 704.950.3 | 4 |
| Terminals nickel plated Cu/Sn | Double plug-in terminal | 704.950.2/D | 4 |
| For ring cable shoe | Screw terminal | 704.950.0B | 4 |



Dimensions [mm]

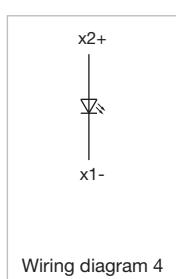
A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

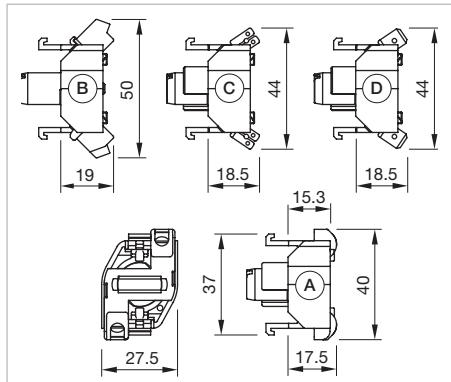
Wiring diagrams





Lamp block for selector switch 3 positions

| Product attributes | Terminal kind of | Part No. | Wiring diagram |
|---|-------------------------|-------------|----------------|
| | Screw terminal | 704.951.0 | 4 |
| | Plug-in terminal | 704.951.1 | 4 |
| Terminals nickel plated and blank Cu/Sn | Double plug-in terminal | 704.951.1/D | 4 |
| | Push-in Terminal | 704.951.3 | 4 |



Dimensions [mm]

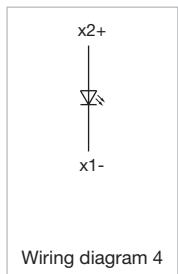
A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



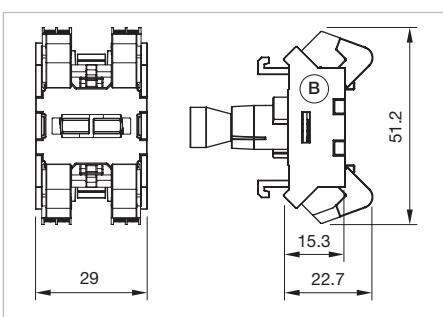
Wiring diagram 4

04 Components



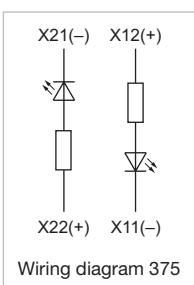
Dual lamp block

| Operating voltage | Terminal kind of | Part No. | Wiring diagram | Component Layout |
|-------------------|------------------|---------------|----------------|------------------|
| 24 V AC/DC | Push-in Terminal | 704.952.129.3 | 375 | 104 |
| 110 V AC/DC | Push-in Terminal | 704.952.159.3 | 375 | 104 |

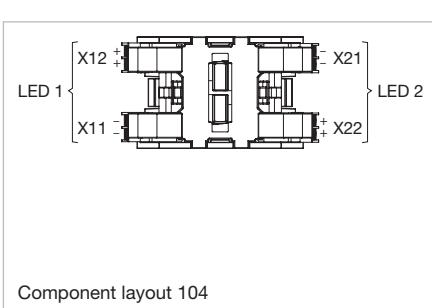


Dimensions [mm]
B = Push-in terminal (PIT)

Wiring diagrams



Component layouts



Component layout 104



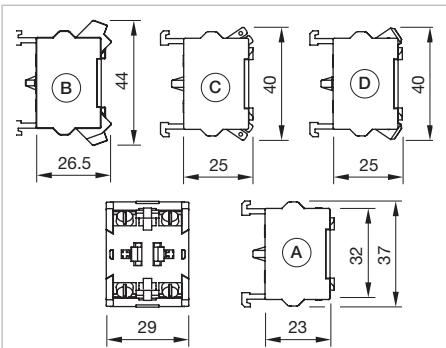
Snap-action switching element with push-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|--------------------|-----------|----------------|
| 250 V | 6 A | 1 NO | Gold-plated silver | 704.907.1 | 376 |
| | 6 A | 1 NC | Gold-plated silver | 704.907.2 | 377 |
| | 6 A | 2 NO | Gold-plated silver | 704.907.3 | 378 |
| | 6 A | 2 NC | Gold-plated silver | 704.907.4 | 379 |
| | 6 A | 1 NC / 1 NO | Gold-plated silver | 704.907.5 | 380 |
| | 6 A | 1 NO | Silver | 704.908.1 | 376 |
| | 6 A | 1 NC | Silver | 704.908.2 | 377 |
| | 6 A | 2 NO | Silver | 704.908.3 | 378 |
| | 6 A | 2 NC | Silver | 704.908.4 | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.908.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|---|---|---|---|--|
|  |  |  |  |  |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |

04 Components



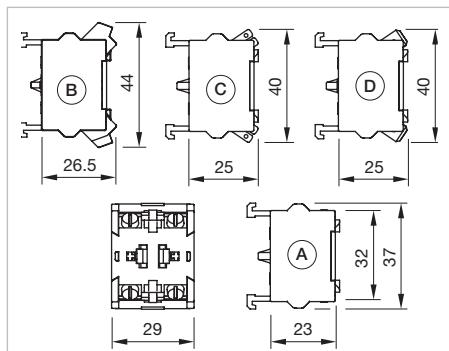
Slow-make switching element with push-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|--------------------|-----------|----------------|
| 250 V | 6 A | 1 NO | Gold-plated silver | 704.917.1 | 376 |
| | 6 A | 1 NC | Gold-plated silver | 704.917.2 | 377 |
| | 6 A | 2 NO | Gold-plated silver | 704.917.3 | 378 |
| | 6 A | 2 NC | Gold-plated silver | 704.917.4 | 379 |
| | 6 A | 1 NC / 1 NO | Gold-plated silver | 704.917.5 | 380 |
| | 6 A | 1 NO | Silver | 704.918.1 | 376 |
| | 6 A | 1 NC | Silver | 704.918.2 | 377 |
| | 6 A | 2 NO | Silver | 704.918.3 | 378 |
| | 6 A | 2 NC | Silver | 704.918.4 | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.918.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |



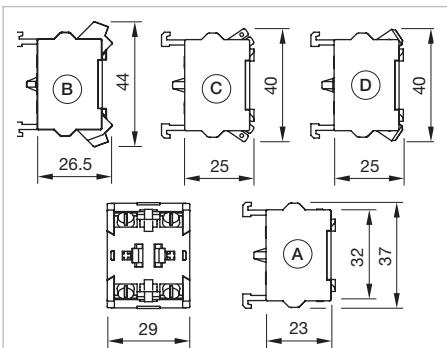
Snap-action switching element with plug-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|------------------|-----------|----------------|
| 500 V | 6 A | 1 NO | Silver | 704.905.1 | 376 |
| | 6 A | 1 NC | Silver | 704.905.2 | 377 |
| | 6 A | 2 NO | Silver | 704.905.3 | 378 |
| | 6 A | 2 NC | Silver | 704.905.4 | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.905.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |

04 Components



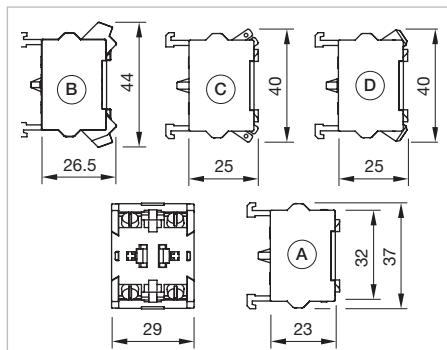
Slow-make switching element with plug-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|------------------|-----------|----------------|
| 500 V | 6 A | 1 NO | Silver | 704.915.1 | 376 |
| | 6 A | 1 NC | Silver | 704.915.2 | 377 |
| | 6 A | 2 NO | Silver | 704.915.3 | 378 |
| | 6 A | 2 NC | Silver | 704.915.4 | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.915.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |



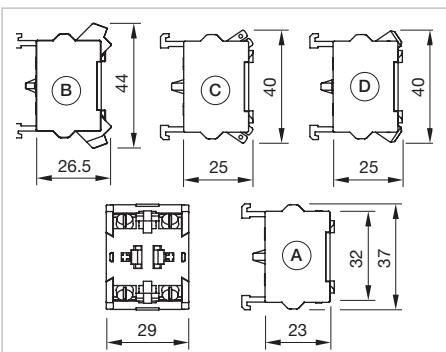
Snap-action switching element with double plug-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|--------------------|-------------|----------------|
| 500 V | 6 A | 1 NO | Gold-plated silver | 704.901.1/D | 376 |
| | 6 A | 1 NC | Gold-plated silver | 704.901.2/D | 377 |
| | 6 A | 2 NO | Gold-plated silver | 704.901.3/D | 378 |
| | 6 A | 2 NC | Gold-plated silver | 704.901.4/D | 379 |
| | 6 A | 1 NC / 1 NO | Gold-plated silver | 704.901.5/D | 380 |
| | 6 A | 1 NO | Silver | 704.905.1/D | 376 |
| | 6 A | 1 NC | Silver | 704.905.2/D | 377 |
| | 6 A | 2 NC | Silver | 704.905.4/D | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.905.5/D | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |

04 Components



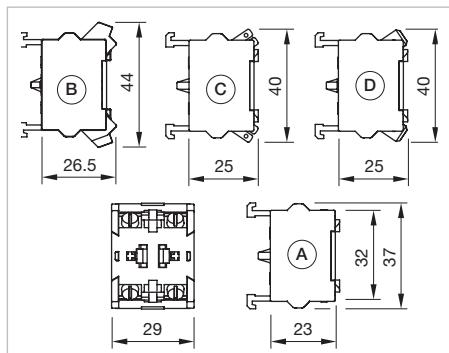
Slow-make switching element with double plug-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|------------------|-------------|----------------|
| 500 V | 6 A | 1 NO | Silver | 704.915.1/D | 376 |
| | 6 A | 1 NC | Silver | 704.915.2/D | 377 |
| | 6 A | 2 NO | Silver | 704.915.3/D | 378 |
| | 6 A | 2 NC | Silver | 704.915.4/D | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.915.5/D | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |



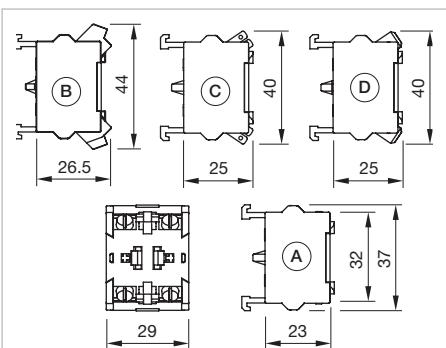
Snap-action switching element with screw terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|--------------------|-----------|----------------|
| 500 V | 10 A | 1 NO | Silver | 704.900.1 | 376 |
| | 10 A | 1 NC | Silver | 704.900.2 | 377 |
| | 10 A | 2 NO | Silver | 704.900.3 | 378 |
| | 10 A | 2 NC | Silver | 704.900.4 | 379 |
| | 10 A | 1 NC / 1 NO | Silver | 704.900.5 | 380 |
| | 10 A | 1 NO | Gold-plated silver | 704.901.1 | 376 |
| | 10 A | 1 NC | Gold-plated silver | 704.901.2 | 377 |
| | 10 A | 2 NO | Gold-plated silver | 704.901.3 | 378 |
| | 10 A | 2 NC | Gold-plated silver | 704.901.4 | 379 |
| | 10 A | 1 NC / 1 NO | Gold-plated silver | 704.901.5 | 380 |
| | 10 A | 1 NO | Palladium | 704.902.1 | 376 |
| | 10 A | 1 NC | Palladium | 704.902.2 | 377 |
| | 10 A | 2 NO | Palladium | 704.902.3 | 378 |
| | 10 A | 2 NC | Palladium | 704.902.4 | 379 |
| | 10 A | 1 NC / 1 NO | Palladium | 704.902.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

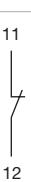
A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|---|---|---|---|--|
|  |  |  |  |  |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |

04 Components



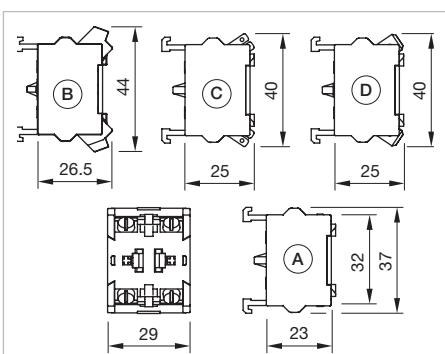
Slow-make switching element with screw terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|--------------------|-----------|----------------|
| 500 V | 10 A | 1 NO | Silver | 704.910.1 | 376 |
| | 10 A | 1 NC | Silver | 704.910.2 | 377 |
| | 10 A | 2 NO | Silver | 704.910.3 | 378 |
| | 10 A | 2 NC | Silver | 704.910.4 | 379 |
| | 10 A | 1 NC / 1 NO | Silver | 704.910.5 | 380 |
| | 10 A | 1 NO | Gold-plated silver | 704.911.1 | 376 |
| | 10 A | 1 NC | Gold-plated silver | 704.911.2 | 377 |
| | 10 A | 2 NO | Gold-plated silver | 704.911.3 | 378 |
| | 10 A | 2 NC | Gold-plated silver | 704.911.4 | 379 |
| | 10 A | 1 NC / 1 NO | Gold-plated silver | 704.911.5 | 380 |
| | 10 A | 1 NO | Palladium | 704.912.1 | 376 |
| | 10 A | 2 NO | Palladium | 704.912.3 | 378 |
| | 10 A | 2 NC | Palladium | 704.912.4 | 379 |
| | 10 A | 1 NC / 1 NO | Palladium | 704.912.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

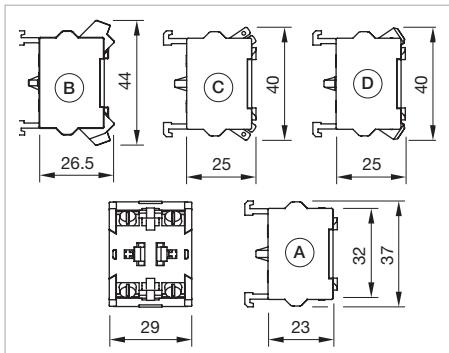
| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |



Snap-action switching element for ring cable shoe with screw terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|------------------|------------|----------------|
| 500 V | 10 A | 1 NO | Silver | 704.900.1B | 376 |
| | 10 A | 1 NC | Silver | 704.900.2B | 377 |
| | 10 A | 2 NO | Silver | 704.900.3B | 378 |
| | 10 A | 2 NC | Silver | 704.900.4B | 379 |
| | 10 A | 1 NC / 1 NO | Silver | 704.900.5B | 380 |

Contacts: NC = Normally closed, NO = Normally open



Dimensions [mm]

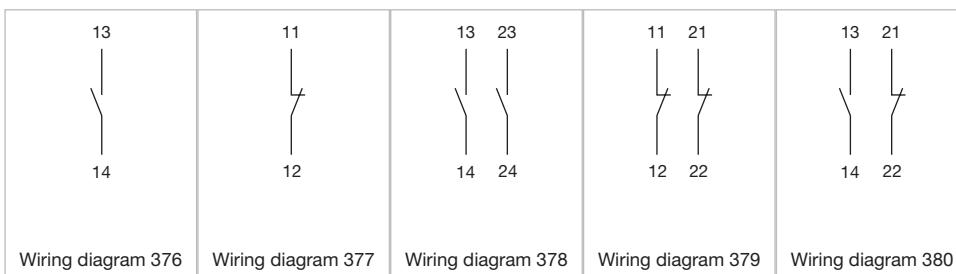
A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams



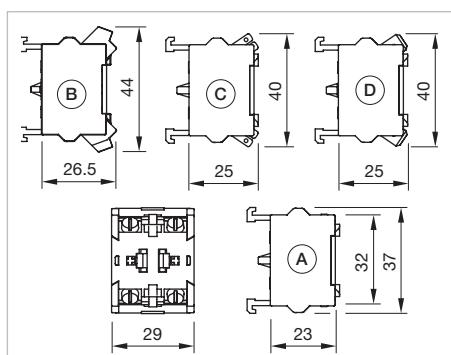
04 Components



Slow-make switching element for ring cable shoe with screw terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|--------------------|------------|----------------|
| 500 V | 10 A | 1 NO | Silver | 704.910.1B | 376 |
| | 10 A | 1 NC | Silver | 704.910.2B | 377 |
| | 10 A | 2 NO | Silver | 704.910.3B | 378 |
| | 10 A | 2 NC | Silver | 704.910.4B | 379 |
| | 10 A | 2 NO | Gold-plated silver | 704.911.3B | 378 |
| | 10 A | 2 NC | Gold-plated silver | 704.911.4B | 379 |
| | 10 A | 1 NC / 1 NO | Gold-plated silver | 704.911.5B | 380 |

Contacts: NC = Normally closed, NO = Normally open



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |



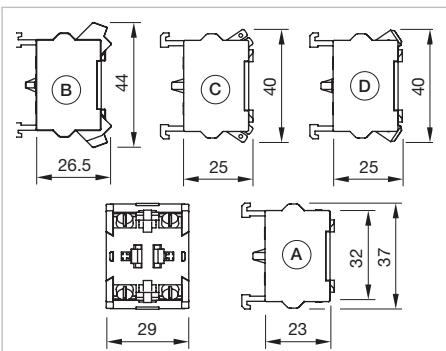
Slow-make switching element for emergency stop switch with push-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|--------------------|-----------|----------------|
| 250 V | 6 A | 1 NO | Gold-plated silver | 704.917.1 | 376 |
| | 6 A | 1 NC | Gold-plated silver | 704.917.2 | 377 |
| | 6 A | 2 NO | Gold-plated silver | 704.917.3 | 378 |
| | 6 A | 2 NC | Gold-plated silver | 704.917.4 | 379 |
| | 6 A | 1 NC / 1 NO | Gold-plated silver | 704.917.5 | 380 |
| | 6 A | 1 NO | Silver | 704.918.1 | 376 |
| | 6 A | 1 NC | Silver | 704.918.2 | 377 |
| | 6 A | 2 NO | Silver | 704.918.3 | 378 |
| | 6 A | 2 NC | Silver | 704.918.4 | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.918.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |

04 Components



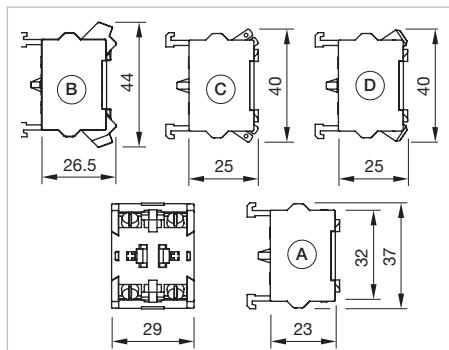
Slow-make switching element for emergency stop switch with plug-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|------------------|-----------|----------------|
| 500 V | 6 A | 1 NO | Silver | 704.915.1 | 376 |
| | 6 A | 1 NC | Silver | 704.915.2 | 377 |
| | 6 A | 2 NO | Silver | 704.915.3 | 378 |
| | 6 A | 2 NC | Silver | 704.915.4 | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.915.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

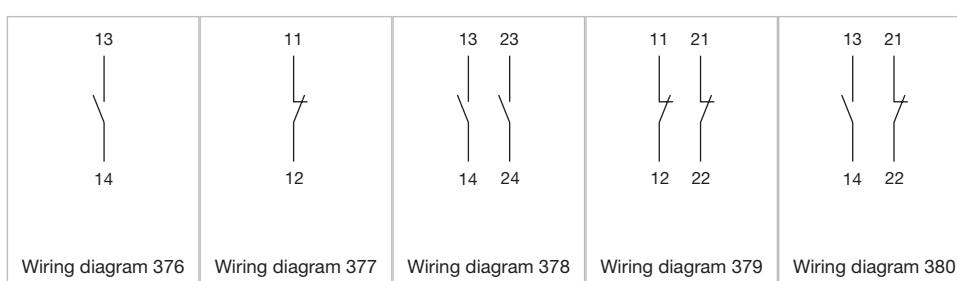
A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams





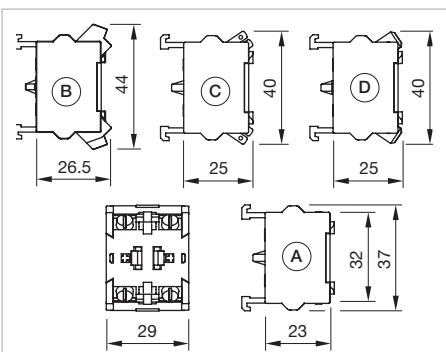
Slow-make switching element for emergency stop switch with double plug-in terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|------------------|-------------|----------------|
| 500 V | 6 A | 1 NO | Silver | 704.915.1/D | 376 |
| | 6 A | 1 NC | Silver | 704.915.2/D | 377 |
| | 6 A | 2 NO | Silver | 704.915.3/D | 378 |
| | 6 A | 2 NC | Silver | 704.915.4/D | 379 |
| | 6 A | 1 NC / 1 NO | Silver | 704.915.5/D | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |

04 Components



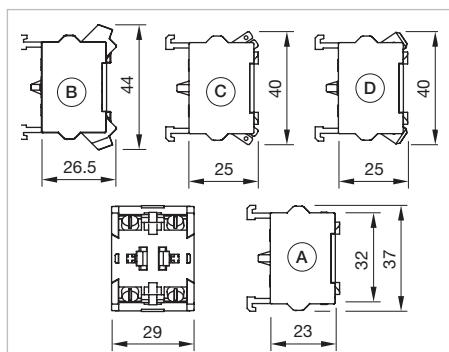
Slow-make switching element for emergency stop switch with screw terminal

| Switching voltage | Switching current | Contacts | Contact material | Part No. | Wiring diagram |
|-------------------|-------------------|-------------|--------------------|-----------|----------------|
| 500 V | 10 A | 1 NO | Silver | 704.910.1 | 376 |
| | 10 A | 1 NC | Silver | 704.910.2 | 377 |
| | 10 A | 2 NO | Silver | 704.910.3 | 378 |
| | 10 A | 2 NC | Silver | 704.910.4 | 379 |
| | 10 A | 1 NC / 1 NO | Silver | 704.910.5 | 380 |
| | 10 A | 1 NO | Gold-plated silver | 704.911.1 | 376 |
| | 10 A | 1 NC | Gold-plated silver | 704.911.2 | 377 |
| | 10 A | 2 NO | Gold-plated silver | 704.911.3 | 378 |
| | 10 A | 2 NC | Gold-plated silver | 704.911.4 | 379 |
| | 10 A | 1 NC / 1 NO | Gold-plated silver | 704.911.5 | 380 |
| | 10 A | 1 NO | Palladium | 704.912.1 | 376 |
| | 10 A | 2 NO | Palladium | 704.912.3 | 378 |
| | 10 A | 2 NC | Palladium | 704.912.4 | 379 |
| | 10 A | 1 NC / 1 NO | Palladium | 704.912.5 | 380 |

Contacts: NC = Normally closed, NO = Normally open

Additional information

- For the third switching element the terminal marking insert is to be ordered separately



Dimensions [mm]

A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

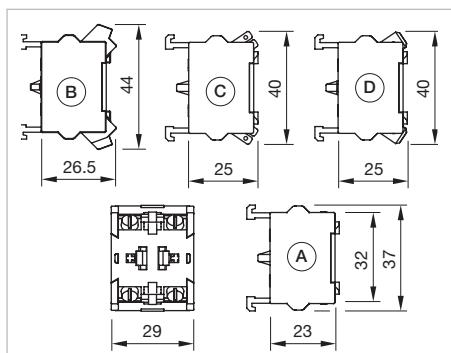
| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 376 | Wiring diagram 377 | Wiring diagram 378 | Wiring diagram 379 | Wiring diagram 380 |



Slow-make switching element failsafe

| Contacts | Contact material | Terminal | Product attributes | Part No. | Wiring diagram |
|-------------|--------------------|-------------------------|---------------------|---------------|----------------|
| 1 NC / 1 FS | Silver | Screw terminal | | 704.910.4FS | 381 |
| | Gold-plated silver | Screw terminal | | 704.911.4FS | 381 |
| | Silver | Screw terminal | For ring cable shoe | 704.910.4BFS | 381 |
| | Gold-plated silver | Screw terminal | For ring cable shoe | 704.911.4BFS | 381 |
| | Silver | Plug-in terminal | | 704.915.4FS | 381 |
| | Gold-plated silver | Double plug-in terminal | | 704.911.4/DFS | 381 |
| | Silver | Double plug-in terminal | | 704.915.4/DFS | 381 |
| | Gold-plated silver | Push-in Terminal | | 704.917.4FS | 381 |
| | Silver | Push-in Terminal | | 704.918.4FS | 381 |

Contacts: NC = Normally closed, NO = Normally open



Dimensions [mm]

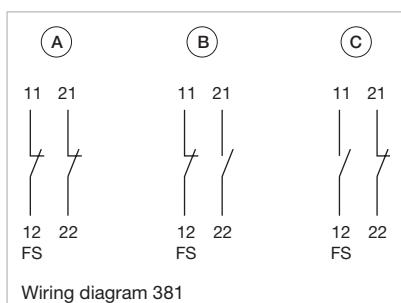
A = Screw terminal

B = Push-in terminal (PIT)

C = Plug-in terminal 6.3 mm x 0.8 mm

D = Double plug-in terminal 6.3 mm x 0.8 mm

Wiring diagrams

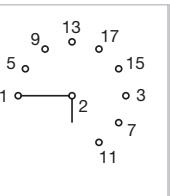
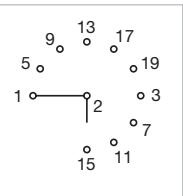
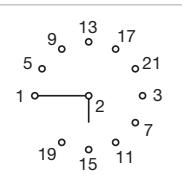
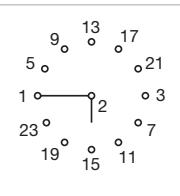


Kraus Naimer rotary switching element 30°

| Switching positions | Rotary positions | Multi-step switch | Stages | Terminal | Part No. | Wiring diagram |
|-------------------------|------------------|-------------------|--------|----------------|-----------|----------------|
| A = Rest, I = End | 9 | 1-pole | 5 | Screw terminal | 704.8A236 | 382 |
| A = Rest, K = End | 10 | 1-pole | 5 | Screw terminal | 704.8A237 | 383 |
| A = Rest, L = End | 11 | 1-pole | 6 | Screw terminal | 704.8A238 | 384 |
| A = Rest, M = End | 12 | 1-pole | 6 | Screw terminal | 704.8A239 | 385 |
| A = Rest (without stop) | 12 | 1-pole | 6 | Screw terminal | 704.8A639 | 385 |

04 Components

Wiring diagrams

| | | | |
|---|---|---|---|
|  |  |  |  |
| Wiring diagram 382 | Wiring diagram 383 | Wiring diagram 384 | Wiring diagram 385 |



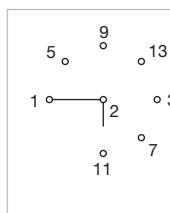
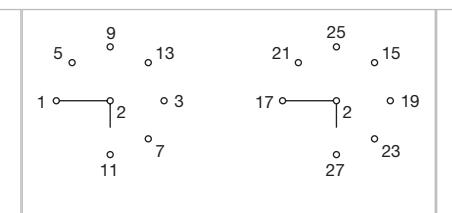
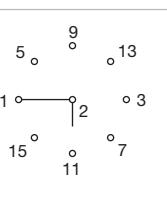
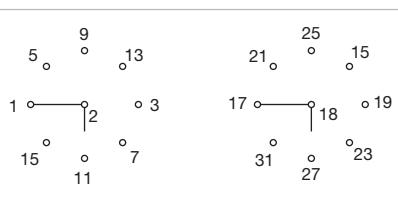
Kraus Naimer rotary switching element 45°

| Switching positions | Rotary positions | Multi-step switch | Stages | Terminal | Part No. | Wiring diagram |
|---------------------|------------------|-------------------|--------|----------------|-----------|----------------|
| A = Rest, G = End | 7 | 1-pole | 4 | Screw terminal | 704.8A234 | 386 |
| | 7 | 2-pole | 7 | Screw terminal | 704.8A254 | 387 |
| A = Rest, H = End | 8 | 1-pole | 4 | Screw terminal | 704.8A235 | 388 |
| | 8 | 2-pole | 8 | Screw terminal | 704.8A255 | 389 |

Additional information

- Switching positions and functions of the rotary switching element are being produced according to customer specifications. Please contact your local EAO Sales Office

Wiring diagrams

| | | | |
|--|---|---|--|
|  |  |  |  |
| Wiring diagram 386 | Wiring diagram 387 | Wiring diagram 388 | Wiring diagram 389 |



Kraus Naimer rotary switching element 60°

| Switching positions | Rotary positions | Multi-step switch | Stages | Terminal | Part No. | Wiring diagram |
|---------------------|------------------|-------------------------------|--------|----------------|-----------|----------------|
| A = Rest, C = End | 3 | 1-pole | 2 | Screw terminal | 704.8A230 | 390 |
| | 3 | 1-pole, galvanically isolated | 2 | Screw terminal | 704.8A730 | 391 |
| | 3 | 2-pole | 3 | Screw terminal | 704.8A250 | 392 |
| | 3 | 3-pole | 5 | Screw terminal | 704.8A270 | 393 |
| A = Rest, D = End | 4 | 1-pole | 2 | Screw terminal | 704.8A231 | 394 |
| | 4 | 1-pole, galvanically isolated | 2 | Screw terminal | 704.8A731 | 395 |
| | 4 | 2-pole | 4 | Screw terminal | 704.8A251 | 396 |
| | 4 | 3-pole | 6 | Screw terminal | 704.8A271 | 397 |
| A = Rest, E = End | 5 | 1-pole | 3 | Screw terminal | 704.8A232 | 398 |
| | 5 | 2-pole | 5 | Screw terminal | 704.8A252 | 399 |
| | 5 | 3-pole | 8 | Screw terminal | 704.8A272 | 400 |
| A = Rest, F = End | 6 | 1-pole | 3 | Screw terminal | 704.8A233 | 401 |
| | 6 | 2-pole | 6 | Screw terminal | 704.8A253 | 402 |

Additional information

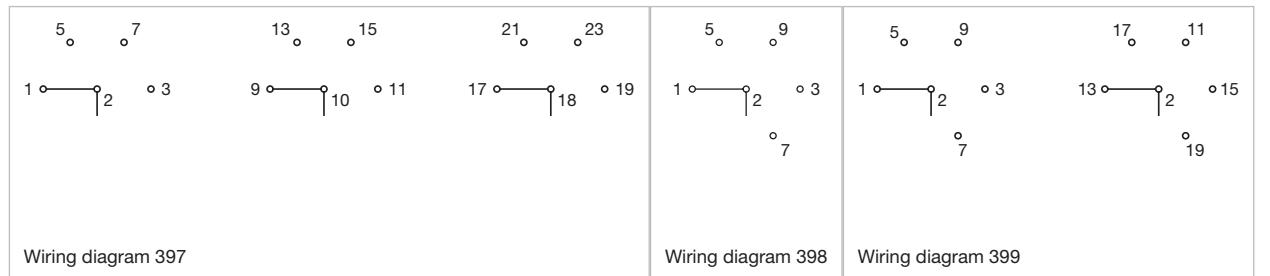
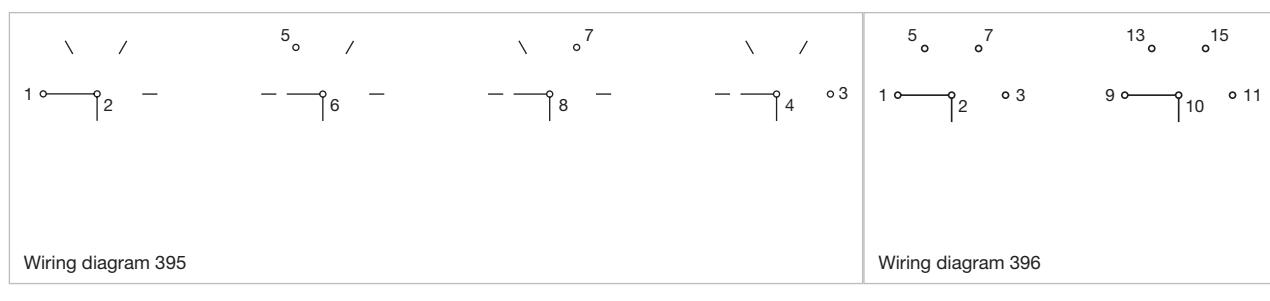
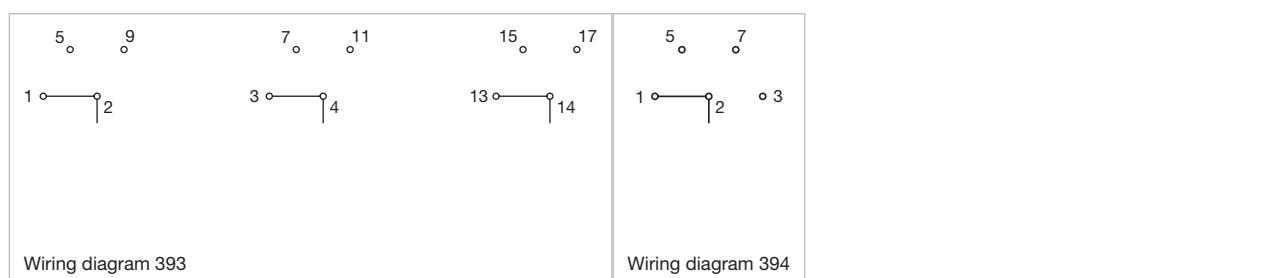
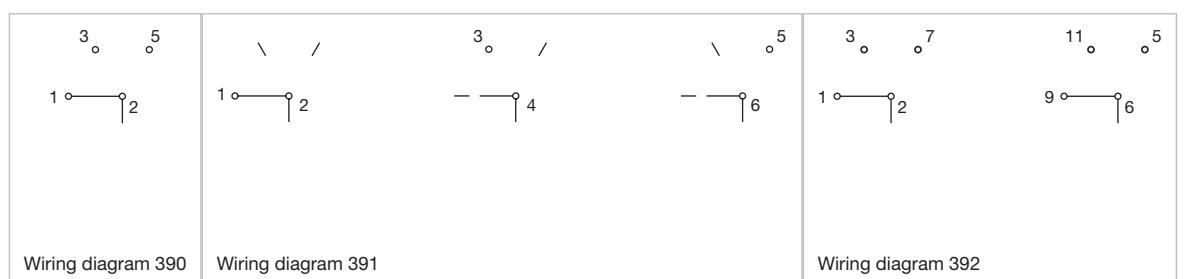
- Switching positions and functions of the rotary switching element are being produced according to customer specifications. Please contact your local EAO Sales Office



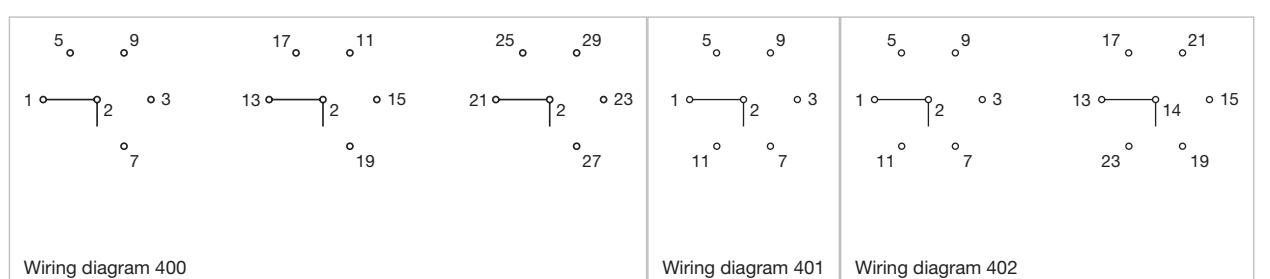
On our website you can download technical data, assembly instructions, catalogs, brochures and much more.

04 Components

Wiring diagrams



Wiring diagrams





Santon rotary switching element 30°

| Switching positions | Rotary positions | Multi-step switch | Stages | Terminal | Part No. | Wiring diagram |
|---------------------|------------------|-------------------|--------|------------------|--------------|----------------|
| A = Rest, I = End | 9 | 1-pole | 5 | Screw terminal | 704.F100001 | 443 |
| A = Rest, K = End | 10 | 1-pole | 5 | Screw terminal | 704.F100002 | 444 |
| A = Rest, L = End | 11 | 1-pole | 6 | Screw terminal | 704.F100003 | 445 |
| A = Rest, M = End | 12 | 1-pole | 6 | Screw terminal | 704.F100004 | 442 |
| A = Rest, M = End | 12 | 1-pole | 6 | Screw terminal | 704.F100015 | 442 |
| A = Rest, I = End | 9 | 1-pole | 5 | Plug-in terminal | 704.F1A00001 | 443 |
| A = Rest, K = End | 10 | 1-pole | 5 | Plug-in terminal | 704.F1A00002 | 444 |
| A = Rest, L = End | 11 | 1-pole | 6 | Plug-in terminal | 704.F1A00003 | 445 |
| A = Rest, M = End | 12 | 1-pole | 6 | Plug-in terminal | 704.F1A00004 | 442 |
| A = Rest, M = End | 12 | 1-pole | 6 | Plug-in terminal | 704.F1A00015 | 442 |

Additional information

- Switching positions and functions of the rotary switching element are being produced according to customer specifications. Please contact your local EAO Sales Office

Wiring diagrams

| | | | | |
|--------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Wiring diagram 442 | Wiring diagram 443 | Wiring diagram 444 | Wiring diagram 445 | Wiring diagram 446 |

04 Components



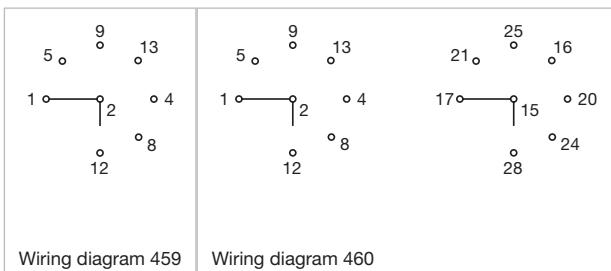
Santon rotary switching element 45°

| Switching positions | Rotary positions | Multi-step switch | Stages | Terminal | Part No. | Wiring diagram |
|---------------------|------------------|-------------------|--------|------------------|--------------|----------------|
| A = Rest, G = End | 7 | 1-pole | 4 | Screw terminal | 704.F100019 | 459 |
| A = Rest, G = End | 7 | 2-pole | 7 | Screw terminal | 704.F100020 | 460 |
| A = Rest, H = End | 8 | 1-pole | 4 | Screw terminal | 704.F100021 | 461 |
| A = Rest, H = End | 8 | 2-pole | 8 | Screw terminal | 704.F100022 | 462 |
| A = Rest, G = End | 7 | 1-pole | 4 | Plug-in terminal | 704.F1A00019 | 459 |
| A = Rest, G = End | 7 | 2-pole | 7 | Plug-in terminal | 704.F1A00020 | 460 |
| A = Rest, H = End | 8 | 1-pole | 4 | Plug-in terminal | 704.F1A00021 | 461 |
| A = Rest, H = End | 8 | 2-pole | 8 | Plug-in terminal | 704.F1A00022 | 462 |

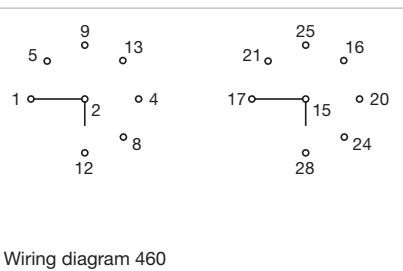
Additional information

- Switching positions and functions of the rotary switching element are being produced according to customer specifications. Please contact your local EAO Sales Office

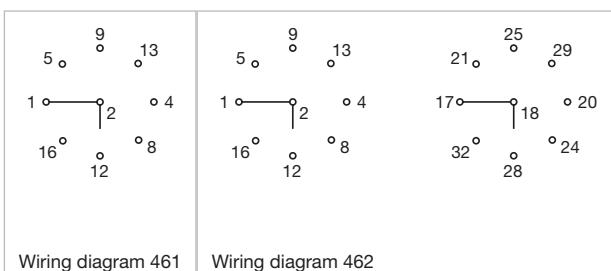
Wiring diagrams



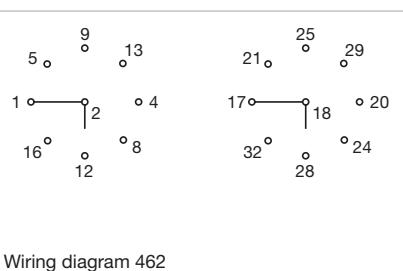
Wiring diagram 459



Wiring diagram 460



Wiring diagram 461



Wiring diagram 462



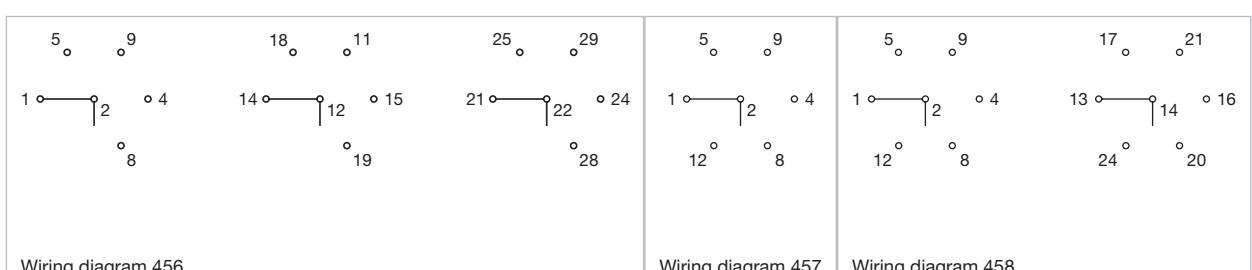
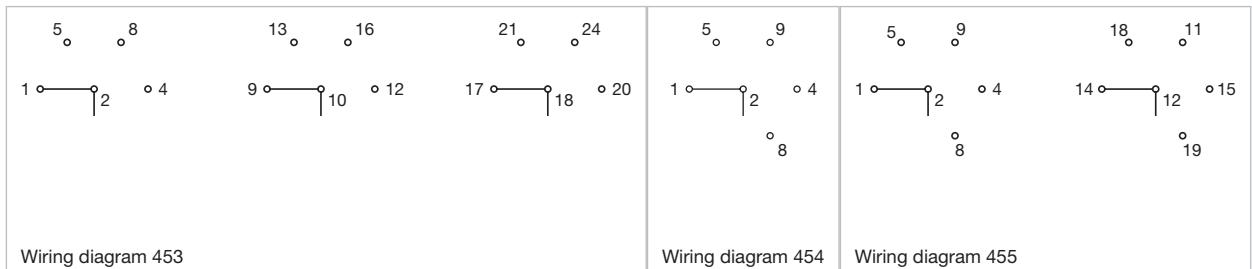
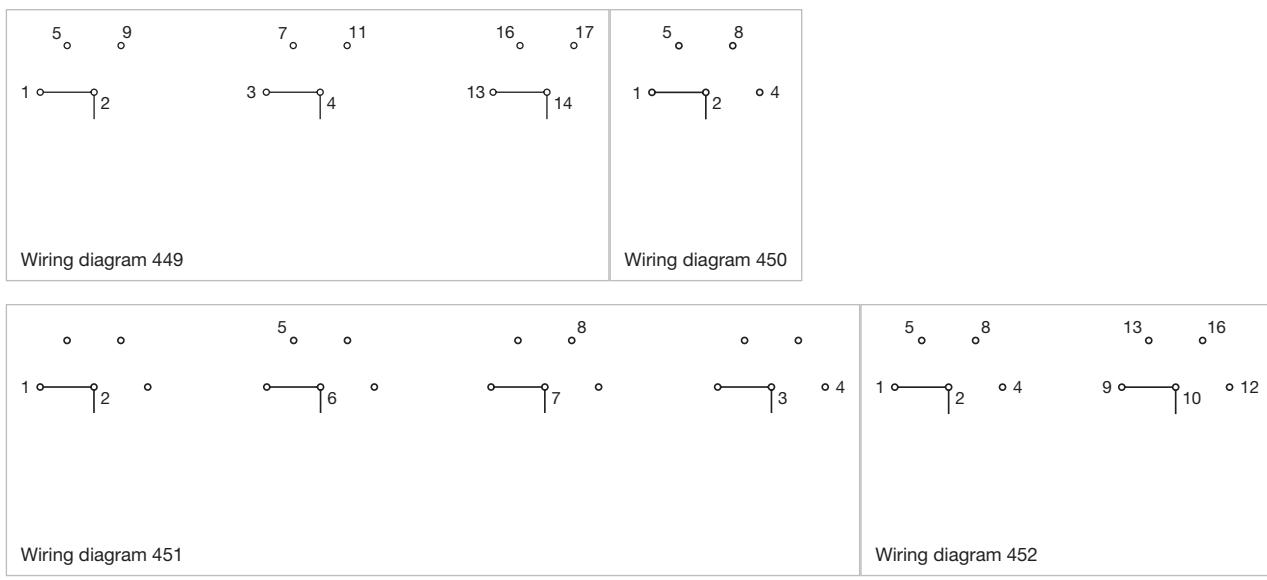
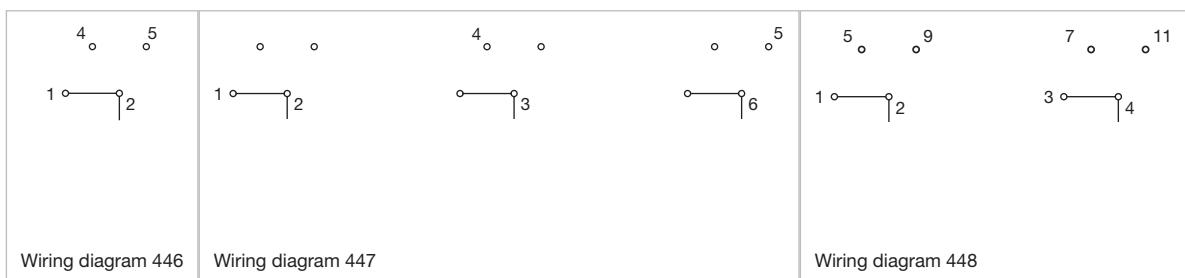
Santon rotary switching element 60°

| Switching positions | Rotary positions | Multi-step switch | Stages | Terminal | Part No. | Wiring diagram |
|---------------------|------------------|-------------------|--------|------------------|--------------|----------------|
| A = Rest, D = End | 4 | 4-pole | 2 | Screw terminal | 704.F100005 | 451 |
| A = Rest, C = End | 3 | 1-pole | 2 | Screw terminal | 704.F100006 | 446 |
| A = Rest, C = End | 3 | 2-pole | 3 | Screw terminal | 704.F100007 | 448 |
| A = Rest, C = End | 3 | 3-pole | 5 | Screw terminal | 704.F100008 | 449 |
| A = Rest, D = End | 4 | 1-pole | 2 | Screw terminal | 704.F100009 | 450 |
| A = Rest, D = End | 4 | 2-pole | 4 | Screw terminal | 704.F100010 | 452 |
| A = Rest, D = End | 4 | 3-pole | 6 | Screw terminal | 704.F100011 | 453 |
| A = Rest, E = End | 5 | 1-pole | 3 | Screw terminal | 704.F100012 | 454 |
| A = Rest, E = End | 5 | 2-pole | 5 | Screw terminal | 704.F100013 | 455 |
| A = Rest, E = End | 5 | 3-pole | 8 | Screw terminal | 704.F100014 | 456 |
| A = Rest, F = End | 6 | 1-pole | 3 | Screw terminal | 704.F100016 | 457 |
| A = Rest, F = End | 6 | 2-pole | 6 | Screw terminal | 704.F100017 | 458 |
| A = Rest, C = End | 3 | 3-pole | 2 | Screw terminal | 704.F100018 | 447 |
| A = Rest, D = End | 4 | 4-pole | 2 | Plug-in terminal | 704.F1A00005 | 451 |
| A = Rest, C = End | 3 | 1-pole | 2 | Plug-in terminal | 704.F1A00006 | 446 |
| A = Rest, C = End | 3 | 2-pole | 3 | Plug-in terminal | 704.F1A00007 | 448 |
| A = Rest, C = End | 3 | 3-pole | 5 | Plug-in terminal | 704.F1A00008 | 449 |
| A = Rest, D = End | 4 | 1-pole | 2 | Plug-in terminal | 704.F1A00009 | 450 |
| A = Rest, D = End | 4 | 2-pole | 4 | Plug-in terminal | 704.F1A00010 | 452 |
| A = Rest, D = End | 4 | 3-pole | 6 | Plug-in terminal | 704.F1A00011 | 453 |
| A = Rest, E = End | 5 | 1-pole | 3 | Plug-in terminal | 704.F1A00012 | 454 |
| A = Rest, E = End | 5 | 2-pole | 5 | Plug-in terminal | 704.F1A00013 | 455 |
| A = Rest, E = End | 5 | 3-pole | 8 | Plug-in terminal | 704.F1A00014 | 456 |
| A = Rest, F = End | 6 | 1-pole | 3 | Plug-in terminal | 704.F1A00016 | 457 |
| A = Rest, F = End | 6 | 2-pole | 6 | Plug-in terminal | 704.F1A00017 | 458 |
| A = Rest, C = End | 3 | 3-pole | 2 | Plug-in terminal | 704.F1A00018 | 447 |

Additional information

- Switching positions and functions of the rotary switching element are being produced according to customer specifications. Please contact your local EAO Sales Office

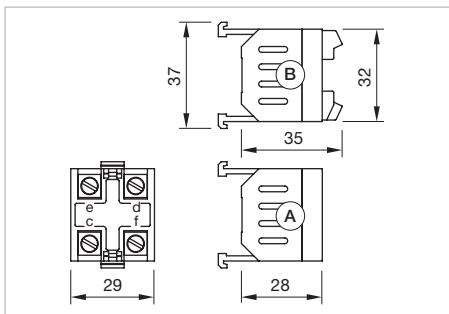
Wiring diagrams





Flasher element

| Product attributes | Terminal | Part No. | Wiring diagram |
|--|------------------|------------|----------------|
| Lamp voltage/-current 130 V, 20 mA | Screw terminal | 704.943.0 | 374 |
| Lamp voltage/- current 60 V, 33 mA | Screw terminal | 704.943.1 | 374 |
| Lamp voltage/-current 130 V, 3 mA | Push-in Terminal | 704.943.2P | 374 |
| Lamp voltage/-current 24 V, 10 ... 85 mA | Screw terminal | 704.943.2 | 374 |
| | Screw terminal | 704.943.5 | 374 |

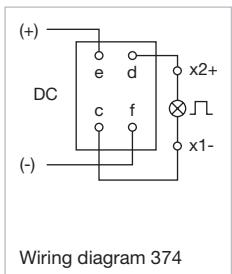


Dimensions [mm]

A = Screw terminal

Push-in terminal (PIT)

Wiring diagrams



Wiring diagram 374

04 Components

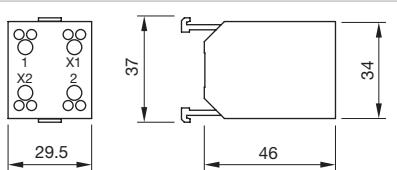


Lamp transformer

| Part No. | Wiring diagram |
|-----------|----------------|
| 704.970.3 | 371 |
| 704.970.4 | 371 |
| 704.970.5 | 371 |
| 704.970.6 | 371 |

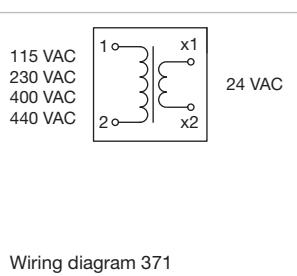
Additional information

- Lamp voltage/-current 24 VAC, 50 mA, 50/60 Hz



Dimensions [mm]

Wiring diagrams



Wiring diagram 371

Front side

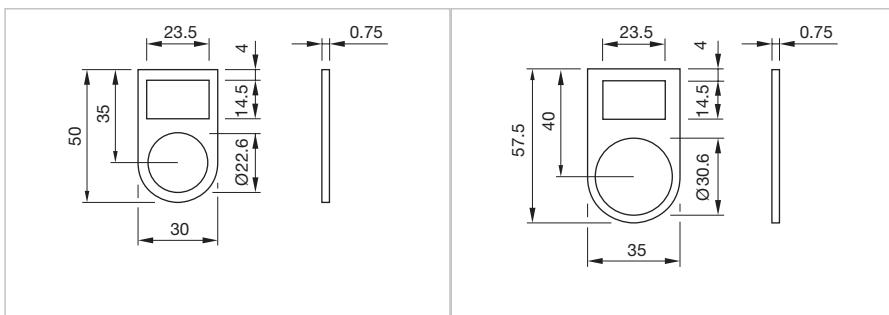


Legend frame

| Product attributes | Dimensions | Material | Colour | Surface | Mounting type | Part No. |
|--------------------|---------------------------|-----------|--------|----------|---------------|-----------|
| For raised design | 30 mm x 0.75 mm x 50 mm | aluminium | Black | anodised | adhesive | 704.968.2 |
| For flush design | 35 mm x 0.75 mm x 57.5 mm | aluminium | Black | anodised | adhesive | 704.968.3 |

Additional information

- The colour of anodised aluminium parts can vary due to technical production reasons

Dimensions [mm]
for Part No. 704.968.2Dimensions [mm]
for Part No. 704.968.3

Legend plate

| Dimensions | Material | Colour | Surface | Mounting type | Part No. |
|-------------------|-----------|--------|----------|---------------|-----------|
| 14.5 mm x 23.5 mm | aluminium | Nature | anodised | adhesive | 704.968.0 |
| | aluminium | Black | anodised | adhesive | 704.968.1 |

Additional information

- For legend frame Part No. 704.968.2 and 704.968.3
- The colour of anodised aluminium parts can vary due to technical production reasons



Legend plate flush design

| Dimensions | Material | Colour | Surface | Mounting type | Part No. |
|---------------|-----------|--------|----------|---------------|-----------|
| 18 mm x 35 mm | aluminium | Nature | anodised | adhesive | 704.968.4 |

Additional information

- For devices square with flush design
- The colour of anodised aluminium parts can vary due to technical production reasons

04 Accessories



Emergency stop legend

| Dimensions | Material | Colour | Mounting cut-out | Marking | Part No. |
|---------------------|----------|--------|-----------------------|---------------------|-----------|
| \varnothing 60 mm | plastic | Yellow | \varnothing 22.3 mm | NOT AUS | 704.963.5 |
| | plastic | Yellow | \varnothing 22.3 mm | EMERGENCY STOP | 704.963.6 |
| | plastic | Yellow | \varnothing 22.3 mm | ARRET D'URGENCE | 704.963.7 |
| | plastic | Yellow | \varnothing 22.3 mm | NOT HALT | 704.963.8 |
| | plastic | Yellow | \varnothing 22.3 mm | EN ISO 13850 symbol | 704.963.9 |
| \varnothing 90 mm | plastic | Yellow | \varnothing 22.3 mm | NOT AUS | 704.963.0 |
| | plastic | Yellow | \varnothing 22.3 mm | EMERGENCY STOP | 704.963.1 |
| | plastic | Yellow | \varnothing 22.3 mm | ARRET D'URGENCE | 704.963.2 |
| | plastic | Yellow | \varnothing 22.3 mm | NOT HALT | 704.963.3 |
| | plastic | Yellow | \varnothing 22.3 mm | EN ISO 13850 symbol | 704.963.4 |

Additional information

- Front panel thickness 3 mm max.



Legend plate rotary switch

| Product attributes | Dimensions | Material | Colour | Surface | Mounting type | Part No. |
|---------------------------------------|---------------|-----------|--------|----------|---------------|------------|
| For flush design \varnothing 35 mm | 48 mm x 48 mm | aluminium | Black | anodised | adhesive | 704.968.11 |
| For raised design \varnothing 29 mm | 48 mm x 60 mm | aluminium | Black | anodised | adhesive | 704.968.12 |

Additional information

- The colour of anodised aluminium parts can vary due to technical production reasons

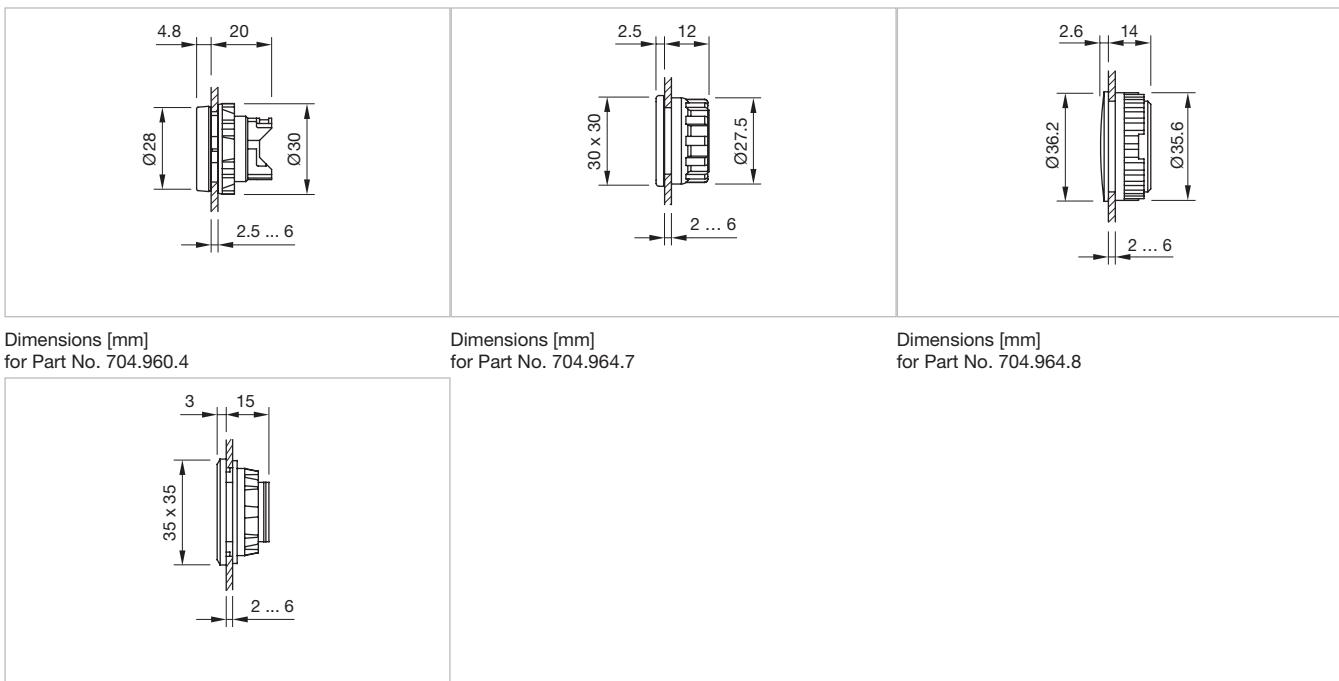


Blind plug

| Dimensions | Material | Colour | Mounting cut-out | Part No. |
|---------------|----------|--------|------------------|-----------|
| Ø 28 mm | plastic | Black | Ø 22.3 mm | 704.960.4 |
| Ø 22.5 mm | plastic | Black | Ø 22.3 mm | 704.964.7 |
| Ø 36 mm | plastic | Black | Ø 30.5 mm | 704.964.8 |
| 35 mm x 35 mm | plastic | Black | 30 mm x 30 mm | 704.964.9 |

Additional information

- Please note that bigger minimum distances are necessary



Dimensions [mm]
for Part No. 704.960.4

Dimensions [mm]
for Part No. 704.964.7

Dimensions [mm]
for Part No. 704.964.8

Dimensions [mm]
for Part No. 704.964.9



Spare key

| Product attributes | Material | Part No. |
|-----------------------------|----------|-------------|
| The standard lock Ronis 251 | metal | 704.989.251 |



Protective cap

| Product attributes | Material | Colour | Optics | Part No. |
|--|----------|------------|-------------|-----------|
| Only together with lenses Part No. 704.602.X, 704.601.X and front rings Part No. 704.600.X | silicone | Colourless | transparent | 704.953.0 |

Additional information

- For Indicator and Illuminated pushbutton for IP68 protection

04 Accessories



Protective ring

| Product attributes | Material | Colour | Surface | Part No. |
|---|-----------|--------|----------|-------------|
| With transparent silicone membrane (resistant to sea water), temperature resistance -40 °C ... +85 °C | brass | Nature | chrome | 704.600.2 |
| | aluminium | | anodised | 704.600.3 |
| With transparent Pebax membrane, temperature resistance -40 °C ... +85 °C | aluminium | Nature | anodised | 704.600.5/A |

Additional information

- For illuminated pushbutton for front protection IP 67
- The colour of anodised aluminium parts can vary due to technical production reasons

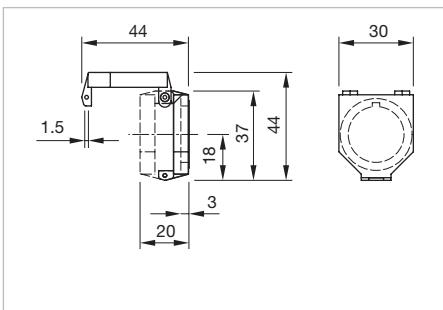


Protective cover raised design

| Product attributes | Material | Optics | Part No. |
|------------------------------------|----------|-------------|-----------|
| For pushbutton | plastic | transparent | 704.925.0 |
| With spring fitted, for pushbutton | plastic | transparent | 704.925.3 |
| For selector switch | plastic | transparent | 704.925.2 |

Additional information

- Hinged, with means for sealing



Dimensions [mm]

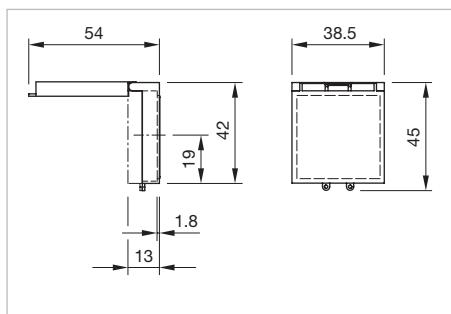


Protective cover square flush design

| Product attributes | Dimensions | Material | Optics | Mounting cut-out | Part No. |
|--------------------|-----------------|----------|-------------|------------------|-----------|
| For pushbutton | 38.5 mm x 45 mm | plastic | transparent | 30 mm x 30 mm | 704.925.8 |

Additional information

- Hinged, with means for sealing
- Front panel thickness reduces by 2 mm
- Please note that bigger minimum distances are necessary



Dimensions [mm]

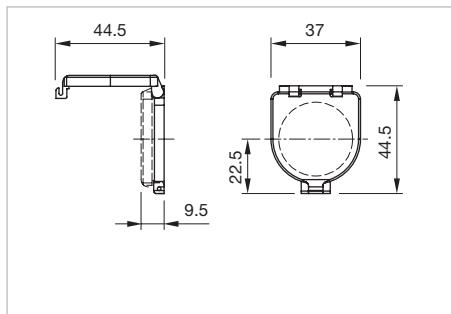


Protective cover round flush design

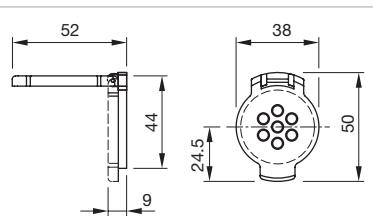
| Product attributes | Dimensions | Material | Colour | Surface | Part No. |
|--|-----------------|-----------|------------|----------|------------|
| With means for sealing, for pushbutton with mounting cut-outs Ø 30.5 mm | 37 mm x 44.5 mm | plastic | Colourless | | 704.925.7 |
| Without cover locking hole, with spring fitted, with window, for pushbutton with mounting cut-outs Ø 30.5 mm | 38 mm x 50 mm | aluminium | Nature | anodised | 704.928.18 |
| Without cover locking hole, for pushbutton and selector switch short lever with mounting cut-outs Ø 30.5 mm | 38 mm x 50 mm | aluminium | Nature | anodised | 704.928.28 |
| With means for sealing, for pushbutton and selector switch short lever with mounting cut-outs Ø 30.5 mm | 38 mm x 50 mm | aluminium | Nature | anodised | 704.928.38 |

Additional information

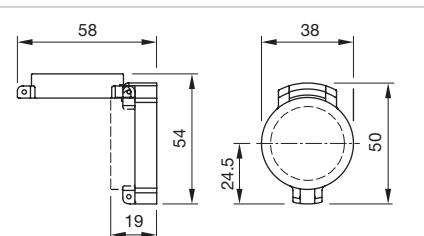
- Hinged
- Front panel thickness reduces by 2 mm
- Please note that bigger minimum distances are necessary
- The colour of anodised aluminium parts can vary due to technical production reasons



Dimensions [mm]
for Part No. 704.925.7



Dimensions [mm]
for Part No. 704.928.18



Dimensions [mm]
for Part No. 704.928.28, 704.928.38

04 Accessories

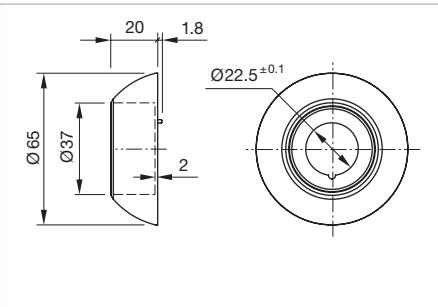


E stop protective shroud

| Dimensions | Material | Colour | Marking | IK Protection | Part No. |
|---------------------|----------|--------|--------------------------|---------------|------------|
| $\varnothing 65$ mm | plastic | Yellow | | IK 07 | 704.927.6 |
| | plastic | Yellow | NOT-AUS | IK 07 | 704.927.6A |
| | plastic | Yellow | EMERGENCY-STOP | IK 07 | 704.927.6B |
| | plastic | Yellow | EMERGENCY-STOP / NOT-AUS | IK 07 | 704.927.6C |

Additional information

- Front panel thickness 1 ... 2.5 mm other actuators
- Front panel thickness 1 ... 2.5 mm with emergency stop switch
- With anti-twist device
- When using a protective shroud the e-stop or stop-switch has to be turned by 180° to be mounted. See dimensional drawing
- Do not use solvents when cleaning



Dimensions [mm]

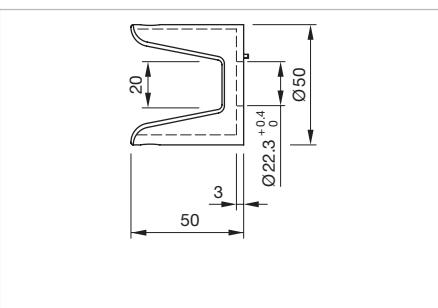


Protective shroud

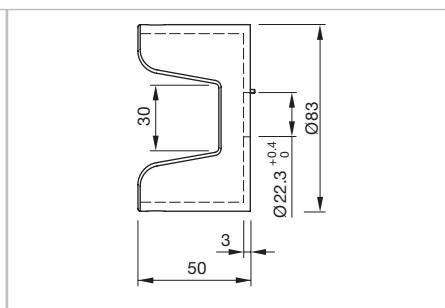
| Product attributes | Dimensions | Material | Colour | Part No. |
|---|---------------------|----------|--------|-----------|
| Use only for Part No. 704.064.2 und 704.066.2 | $\varnothing 50$ mm | plastic | Yellow | 704.927.8 |
| | $\varnothing 83$ mm | plastic | Yellow | 704.927.9 |

Additional information

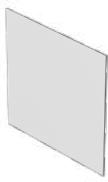
- The protection shroud Part is not suitable for a proper use of emergency-stop. It can obstruct a spontaneous operation of the emergency-stop switch
- Use only for Part No. 704.064.2 und 704.066.2



Dimensions [mm]



Dimensions [mm]



Marking foil square

| Product attributes | Material | Colour | Optics | Part No. |
|---|----------|------------|-------------|-----------|
| For lens square, front illumination | plastic | Colourless | transparent | 704.707.7 |
| For lens square, full-face illumination | plastic | Colourless | transparent | 704.706.7 |

Additional information

- Can be hot stamped

01

02

03

04

09

14

17

18

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31

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82

84

92

96



On our website you can download technical data, assembly instructions, catalogs, brochures and much more.

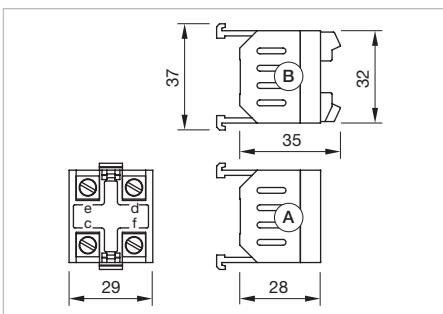
04 Accessories

Rear side



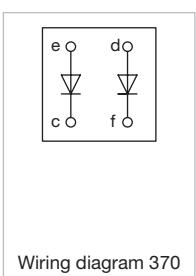
Diode block

| Terminal | Part No. | Wiring diagram |
|------------------|------------|----------------|
| Push-in Terminal | 704.942.5P | 370 |
| Screw terminal | 704.942.5 | 370 |

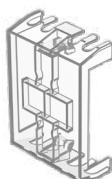


Dimensions [mm]
A = Screw terminal
Push-in terminal (PIT)

Wiring diagrams

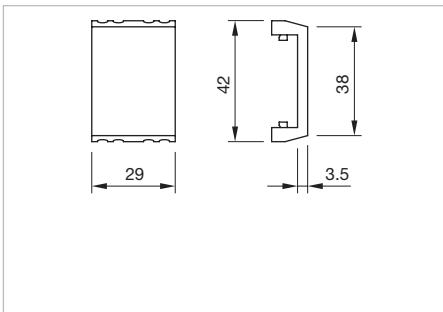


Wiring diagram 370



Terminal cover

| Product attributes | Material | Part No. |
|--------------------------------|----------|-----------|
| For covering of screw terminal | plastic | 704.964.5 |



Dimensions [mm]



Terminal marking

| Product attributes | Marking | Part No. |
|--|-------------|-----------|
| 2 NO for 1st or 2nd switching element | 13/23 33/43 | 704.965.1 |
| | 24/14 44/34 | 704.965.2 |
| 2 NO for 3rd switching element | 53/63 73/83 | 704.965.3 |
| | 64/54 84/74 | 704.965.4 |
| 2 NC for 1st or 2nd switching element | 11/21 31/41 | 704.965.5 |
| | 22/12 42/32 | 704.965.6 |
| 2 NC for 3rd switching element | 51/61 71/81 | 704.965.7 |
| | 62/52 82/72 | 704.965.8 |
| 1 NC + 1 NO for 1st or 2nd switching element | 13/21 33/41 | 704.965.9 |
| | 22/14 42/34 | 704.966.0 |
| 1 NC + 1 NO for 3rd switching element | 53/61 73/81 | 704.966.1 |
| | 62/54 82/74 | 704.966.2 |



Side terminal plate empty

| Product attributes | Dimensions | Part No. |
|--------------------|--------------------------|----------|
| 5 spaces | 62.5 mm x 15 mm x 60 mm | 02-912.1 |
| 10 spaces | 125 mm x 15 mm x 60 mm | 02-912.2 |
| 15 spaces | 187.6 mm x 15 mm x 60 mm | 02-912.3 |
| 20 spaces | 250 mm x 15 mm x 60 mm | 02-912.4 |



Contact bridge

| Material | Part No. |
|----------|-----------|
| metal | 704.990.1 |

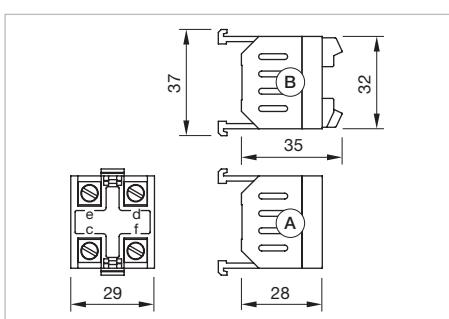
Additional information

- For switching element with screw terminals
- Do not insert by Emergency-stop switches and by stop switches
- Available in unit of 10 pieces



Resistor block

| Product attributes | Material | Operating voltage | Terminal | Part No. | Wiring diagram |
|-------------------------------------|----------|-------------------|----------------|-----------|----------------|
| Lamp voltage/- current 130 V, 20 mA | plastic | 130 - 230 V AC | Screw terminal | 704.941.0 | 372 |
| Lamp voltage/- current 60 V, 33 mA | plastic | 33 - 60 V AC | Screw terminal | 704.941.5 | 372 |

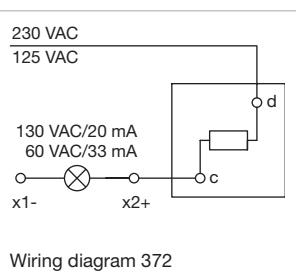


Dimensions [mm]

A = Screw terminal
Push-in terminal (PIT)

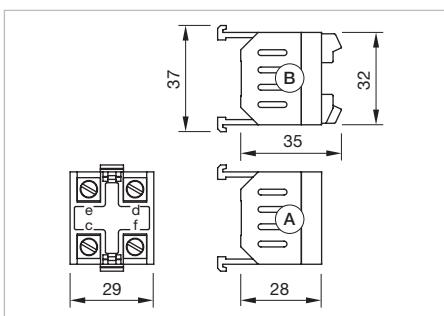
04 Accessories

Wiring diagrams



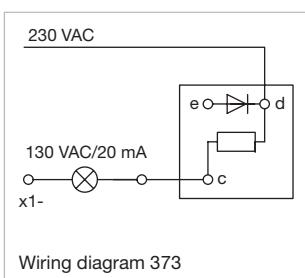
Side resistor diode block

| Product attributes | Material | Operating voltage | Terminal | Part No. | Wiring diagram |
|------------------------------------|----------|-------------------|----------------|-----------|----------------|
| Lamp voltage/-current 130 V, 20 mA | plastic | 130 - 230 V AC | Screw terminal | 704.941.9 | 373 |



Dimensions [mm]
A = Screw terminal
Push-in terminal (PIT)

Wiring diagrams

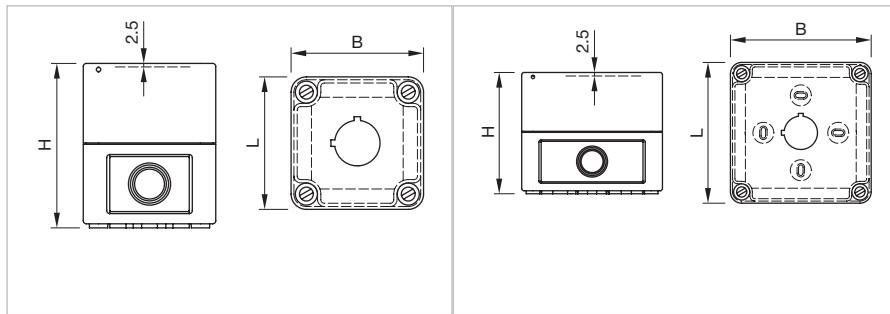


Mounting



Enclosure

| Product attributes | Dimensions | Material | Colour | IP Protection | Part No. |
|--|--------------------------|----------|--------|---------------|-----------|
| Bottom grey similar RAL 7035; cover lead-sealable, yellow similar RAL 1004 | 94 mm x 81 mm x 94 mm | plastic | Grey | IP66 | 704.945.0 |
| | 65 mm x 81 mm x 65 mm | plastic | Grey | IP66 | 704.945.7 |
| | 94 mm x 81 mm x 65 mm | plastic | Grey | IP66 | 704.945.8 |
| With mounting cut-out 1 x Ø 22.5 mm, with anti-twist device | 94 mm x 81 mm x 94 mm | plastic | Grey | IP66 | 704.945.1 |
| with mounting cut-out 2 x Ø 22.3 mm, with anti-twist device | 130 mm x 81 mm x 94 mm | plastic | Grey | IP66 | 704.945.2 |
| with mounting cut-out 3 x Ø 22.3 mm, with anti-twist device | 180 mm x 81 mm x 94 mm | plastic | Grey | IP66 | 704.945.3 |
| with mounting cut-out 4 x Ø 22.3 mm, with anti-twist device | 180 mm x 110 mm x 182 mm | plastic | Grey | IP66 | 704.945.4 |
| with mounting cut-out 6 x Ø 22.3 mm, with anti-twist device | 180 mm x 110 mm x 182 mm | plastic | Grey | IP66 | 704.945.5 |



Dimensions [mm]

Dimensions [mm]



Lens plug

| Product attributes | Material | Part No. |
|--|----------|-----------|
| For mounting and dismantling of the round lens, flush design | plastic | 700.006.0 |



Lens remover

| Product attributes | Material | Part No. |
|--|----------|----------|
| For dismantling of the square lens, flush design | metal | 98-968 |



Cable gland

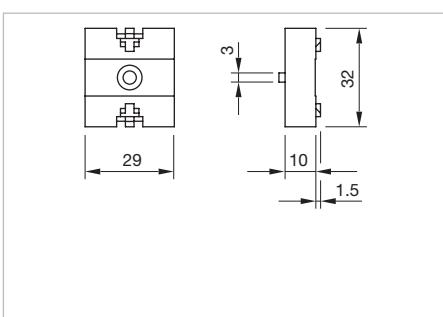
| Product attributes | Material | Colour | IP Protection | Thread | Part No. |
|----------------------|----------|--------|---------------|--------------|-----------|
| With traction relief | plastic | Grey | IP68 | M16 x 1.5 mm | 61-9481.6 |
| | plastic | Grey | IP68 | M20 x 1.5 mm | 704.945.6 |

04 Accessories



Mounting plate

| Product attributes | Material | Colour | Part No. |
|--|----------|--------|-----------|
| For separate mounting of lamp transformer, resistor block or capacitor block | plastic | Grey | 704.940.8 |



Dimensions [mm]



Mounting tool indicator

| Product attributes | Material | Part No. |
|--|----------|-----------|
| For Indicators full-face illumination, compact | metal | 700.005.0 |



Mounting tool key insert switch and conductor switch

| Product attributes | Material | Part No. |
|-----------------------|----------|-----------|
| For key insert switch | metal | 704.990.0 |

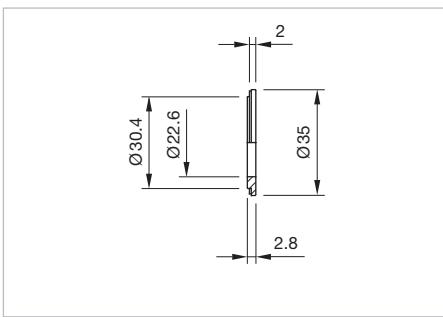


Reducing ring

| Product attributes | Material | Colour | Surface | Part No. |
|---------------------------------|-----------|--------|----------|------------|
| | aluminium | Black | anodised | 704.960.0 |
| | aluminium | Nature | anodised | 704.960.8 |
| With slot for anti-twist device | aluminium | Nature | anodised | 704.960.8A |

Additional information

- Devices Ø 22.3 mm in mounting cut-out Ø 30.5 mm
- The colour of anodised aluminium parts can vary due to technical production reasons

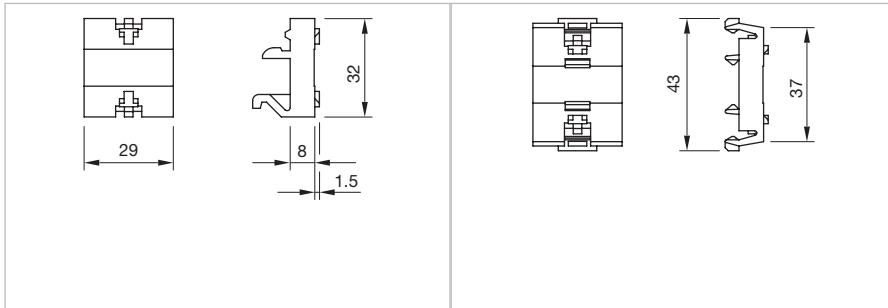


Dimensions [mm]



On base

| Product attributes | Material | Colour | Optics | Part No. |
|--|----------|------------|-------------|-----------|
| To snap-on, for separate mounting of lamp transformer, resistor block or capacitor block | plastic | Black | | 704.940.9 |
| | plastic | Colourless | transparent | 704.941.1 |



Dimensions [mm]

Dimensions [mm]



Reinforcement ring

| Dimensions | Material | Surface | Part No. |
|----------------------|-------------|------------|-----------|
| 44 mm x 3 mm x 29 mm | steel_plate | galvanized | 704.960.9 |

Additional information

- For thin front panels and plastic case

04 Technical data

Slow-make switching element with VDE and UKCA

When using the switching element, the application guidelines must be observed.

Switching system

The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening.

Slow-make contacts with forced action are ideal for high switch ratings.

Up to three switching elements can be snapped to each actuator.

For the emergency-stop switch use the slow-make switching element (max. 2).

Special requirements for positive-opening auxiliary current switches

| | |
|-------------------------|---|
| Positive opening travel | Emergency stop 12.5 mm |
| Minimum force | Emergency stop 50 N (actuating force at which is safely switched) |
| Max. travel | Emergency stop 12.5 mm |

Material

Housing

The indicator lights/switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to UL50E.

Material of contact

Hard silver, gold-silver, silver-palladium (for aggressive atmospheres)

Switch housing

Plastic

Mechanical characteristics

Terminals

Screw terminal

- max. wire cross section 2.5 mm^2

- stripping length wire 10 mm

- max. number of wire 2

- max. strand cross section 1.5 mm^2

- stripping strands use stranded wires only with wire end ferrules of 10 mm length

- max. number of strands 2

Only one polarity is allowed on each side when wiring.

Plug-in terminal 1 x 6.3 mm x 0.8 mm or 2 x 2.8 mm x 0.8 mm

For devices with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

Double plug-in terminal 2 x 6.3 mm x 0.8 mm

For units with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

Tightening torque

Screws at the plastic mounting flange max. 0.4 ... 0.5 Nm

Screws at the metal mounting flange max. 0.25 ... 0.3 Nm

Screws at switching element max. 0.8 Nm

Actuating force

1 Normally closed 2 N

1 Normally open 3 N

Actuating travel

Approx. 5.8 mm ± 0.2 mm

Mechanical lifetime

(with 1 switching element)

Pushbutton maintained action 1.5 million cycles of operation

Pushbutton momentary action 3 million cycles of operation

Selector switch maintained action 1.25 million cycles of operation

Selector switch momentary action 2.5 million cycles of operation

Emergency-stop switch 50 000 cycles of operation

Keylock switch maintained action 25 000 cycles of operation

Keylock switch momentary action 50 000 cycles of operation

Electrical characteristics

Standards

The switches comply with the "Standards for low-voltage switching devices" DIN EN 60947-5-1

Rated Insulation Voltage U_i

500 V, as per DIN EN 60947-5-1

Rated impulse withstand voltage U_{imp}

4 kV, according to EN/IEC 60947-5-1

Electrical life

50 000 cycles of operation

Thermal current I_{th}

Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.

10 A

Switching voltage and switching current

as per EN IEC 60947-5-1

| voltage | DC13 | AC15 |
|---------|-------|------|
| 24V | 4.0A | 8.0A |
| 60V | 1.5A | 8.0A |
| 110V | 1.0A | |
| 120V | | 8.0A |
| 230V | 0.4A | 7.0A |
| 400V | 0.2A | 5.0A |
| 500V | 0.15A | 4.0A |

For voltages greater than $U_i = 400V$, the grid dimensions must not be less than 35 mm x 35 mm.

Recommended minimum operational data**Gold-silver contacts:**

| | | |
|---------|-------|--------|
| Voltage | 24VDC | 110VDC |
| Current | 5mA | 2mA |

Hard silver contacts:

| | | |
|---------|-------|--------|
| Voltage | 24VDC | 110VDC |
| Current | 50mA | 10mA |

Protection class

Indicators and switches, fit for mounting into devices with protection class II

Ambient conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-40 °C ... +55 °C
(other temperatures on request)

Protection degree

IP00

Shock resistance

(single impacts, semi-sinusoidal)

300 m/s² pulse width 11 ms, as per EN IEC 60068-2-27**Vibration resistance**

(sinusoidal)

100 m/s² at 10Hz ... 500Hz, amplitude 0.75 mm, as per EN IEC 60068-2-6**Pollution degree**

3

Climatic resistance

Relative humidity

10 ... 95 % non-condensing

Approvals

Approbations
CB (IEC 60947-5-1)
DNV
EAC
NFF
cULus
VDE

Conformities
CE
CCC
UKCA

Snap-action switching element with VDE and UKCA

When using the switching element, the application guidelines must be observed.

Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.

Up to three switching elements can be snapped to each actuator.

Snap-action switching elements are not permissible for emergency-stop pushbuttons!

Material**Housing**

The indicator lights/ switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to UL50E.

Material of contact

Hard silver, gold-silver, silver-palladium (for aggressive atmospheres)

Switch housing

Plastic

04 Technical data

01 Mechanical characteristics

02 Terminals

03 Screw terminal

04 - max. wire cross section 2.5 mm²

05 - stripping length wire 10 mm

06 - max. number of wire 2

07 - max. strand cross section 1.5 mm²

08 - stripping strands use stranded wires only
09 with wire end ferrules
10 of 10 mm length

11 - max. number of strands 2

12 Only one polarity is allowed on each side when wiring.

13 Plug-in terminal 1 x 6.3 mm x 0.8 mm or 2 x 2.8 mm x 0.8 mm

14 For devices with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

15 Double plug-in terminal 2 x 6.3 mm x 0.8 mm

16 For units with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

22 Tightening torque

23 Screws at the plastic mounting flange max. 0.4–0.5 Nm

24 Screws at the metal mounting flange max. 0.25–0.3 Nm

25 Screws at switching element max. 0.8 Nm

41 Actuating force

42 1 Normally closed 1.9 N

43 1 Normally open 2 N

45 Actuating travel

51 Approx. 5.8 mm ± 0.2 mm

56 Mechanical lifetime

57 (with 1 switching element)

58 Pushbutton maintained action 1.5 million cycles of operation

59 Pushbutton momentary action 3 million cycles of operation

60 Selector switch maintained action 1.25 million cycles of operation

61 Selector switch momentary action 2.5 million cycles of operation

62 Keylock switch maintained action 25 000 cycles of operation

63 Keylock switch momentary action 50 000 cycles of operation

70 Electrical characteristics

71 Standards

82 The switches comply with the "Standards for low-voltage switching devices" DIN EN 60947-5-1

84 Rated Insulation Voltage U₀

85 500 V, as per DIN EN 60947-5-1

92 **Rated impulse withstand voltage U_{imp}**
96 4 kV, according to EN/IEC 60947-5-1

92 Electrical life

96 50 000 cycles of operation

92 Thermal current I_{th}

96 Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.
10 A

92 Switching voltage and switching current

96 as per EN IEC 60947-5-1

| voltage | DC13 | AC15 |
|---------|--------|-------|
| 24 V | 2.5 A | 4.5 A |
| 60 V | 0.8 A | 4.5 A |
| 110 V | 0.6 A | |
| 120 V | | 4.5 A |
| 230 V | 0.2 A | 4.5 A |
| 400 V | 0.15 A | 4.0 A |
| 500 V | 0.07 A | 2.5 A |

96 For voltages greater than U₀ = 400 V, the grid dimensions must not be less than 35 mm x 35 mm.

92 Recommended minimum operational data

96 Gold-silver contacts:

96 Voltage 5 VDC 24 VDC 110 VDC

96 Current 15 mA 5 mA 2 mA

96 Hard silver contacts:

96 Voltage 24 VDC 110 VDC

96 Current 50 mA 10 mA

51 Protection class

56 Indicators and switches, fit for mounting into devices with protection class II.

57 Ambient conditions

58 Storage temperature

59 –40 °C ... +85 °C

61 Operating temperature

62 –40 °C ... +55 °C

63 (other temperatures on request)

71 Protection degree

72 IP00

84 Shock resistance

85 (single impacts, semi-sinusoidal)

86 300 m/s² pulse width 11 ms, as per DIN EN 60068-2-27

Vibration resistance
(sinusoidal)
100 m4/s² at 10 Hz... 500 Hz, amplitude 0.75 mm, as per
DIN EN 60068-2-6

Pollution degree
3

Climatic resistance
Relative humidity
10 ... 95 % non-condensing

Approvals

Approbations
CB (IEC 60947-5-1)
DNV
EAC
NFF
cULus
VDE

Conformities
CE
CCC
UKCA

Slow-make switching element PIT with VDE and UKCA

When using the switching element, the application guidelines must be observed.

Switching system

The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The normally closed contact has forced opening.

Slow-make contacts with forced action are ideal for high switch ratings.

Up to three switching elements can be snapped to each actuator.

For the emergency-stop pushbutton use the slow-make switching element (max. 2).

Special requirements for positive-opening auxiliary current switches

| | |
|-------------------------|---|
| Positive opening travel | Emergency stop 12.5 mm |
| Minimum force | Emergency stop 50 N (actuating force at which is safely switched) |
| Max. travel | Emergency stop 12.5 mm |

Mechanical characteristics

Terminals

| | |
|-----------------------------|---|
| PIT push-in terminal | |
| - max. wire cross section | 1.0 mm ² |
| - stripping length wire | 8 mm |
| - max. number of wire | 2 |
| - max. strand cross section | 0.75 mm ² |
| - stripping strands | use stranded wires only with wire end ferrules of 8 mm length |
| - max. number of strands | 2 |

Only one polarity is allowed on each side when wiring.

Tightening torque

Screws at the plastic mounting flange max. 0.4–0.5 Nm
Screws at the metal mounting flange max. 0.25–0.3 Nm

Actuating force

1 Normally closed 2 N
1 Normally open 3 N

Actuating travel

approx. 5.8 mm ± 0.2 mm

Mechanical lifetime

| | |
|-----------------------------------|----------------------------------|
| (with 1 switching element) | |
| Pushbutton maintained action | 1.5 million cycles of operation |
| Pushbutton momentary action | 3 million cycles of operation |
| Selector switch maintained action | 1.25 million cycles of operation |
| Selector switch momentary action | 2.5 million cycles of operation |
| Emergency-stop switch | 50 000 cycles of operation |
| Keylock switch maintained action | 25 000 cycles of operation |
| Keylock switch momentary action | 50 000 cycles of operation |

Material

Housing

The indicator lights/switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to UL50E.

Material of contact

Hard silver and gold-silver

Switch housing

Plastic

04 Technical data

01

Electrical characteristics

02

Standards

The switches comply with DIN EN 60947-1/EN IEC 60947-5-1

03

Rated Insulation Voltage U_i

500V, as per DIN EN 60947-5-1

04

Rated impulse withstand voltage U_{imp}

4kV, according to EN/IEC 60947-5-1

09

Electrical life

50000 cycles of operation

14

Thermal current I_{th}

Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.

6A

17

Switching voltage and switching current

as per EN IEC 60947-5-1

18

| voltage | DC13 | AC15 |
|---------|------|------|
| 24V | 4,0A | 6,0A |
| 48V | | 6,0A |
| 60V | 1,5A | |
| 110V | 1,0A | |
| 120V | | 6,0A |
| 230V | | 7,0A |

19

For voltages greater than U_i = 400V, the grid dimensions must not be less than 35 mm x 35 mm.

22

Recommended minimum operational data

Gold-silver contacts:

Voltage 24VDC

Current 5mA

31

Hard silver contacts:

Voltage 24VDC

Current 50mA

41

Protection class

Indicators and switches, fit for mounting into devices with protection class II

45

51

56

70

71

82

84

92

96

Ambient conditions

Storage temperature

-40°C ... +85°C

Operating temperature

-40°C ... +55°C

(other temperatures on request)

Protection degree

IP20

Shock resistance

(single impacts, semi-sinusoidal)

300m/s² pulse width 11 ms, as per DIN EN 60068-2-27

Pollution degree

3

Climatic resistance

Relative humidity

10 ... 95 % non-condensing

Approvals

Approbations

CB (IEC 60947-5-1)

DNV

EAC

NFF

cULus

VDE

Conformities

CE

CCC

UKCA

Snap-action switching element PIT with VDE and UKCA

When using the switching element, the application guidelines must be observed.

Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts.

Up to three switching elements can be snapped to each actuator.

Snap-action switching elements are not permissible for emergency stop pushbuttons!

Material

Housing

The indicator lights/switches may be installed in enclosures with protection class 2 according to DIN EN 61140.

The enclosure must at least have enclosure class 2 according to UL50E.

Material of contact

Hard silver and gold-silver

Switch housing

Plastic

Mechanical characteristics

Terminals

PIT push-in terminal

| | |
|-----------------------------|---|
| - max. wire cross section | 1.0 mm ² |
| - stripping length wire | 8 mm |
| - max. number of wire | 2 |
| - max. strand cross section | 0.75 mm ² |
| - stripping strands | use stranded wires only with wire end ferrules of 8 mm length |
| - max. number of strands | 2 |

Only one polarity is allowed on each side when wiring.

Tightening torque

Screws at the plastic mounting flange max. 0.4–0.5 Nm

Screws at the metal mounting flange max. 0.25–0.3 Nm

Actuating force

1 Normally closed 1.9 N

1 Normally open 2 N

Actuating travel

Approx. 5.8 mm ± 0.2 mm

Mechanical lifetime

(with 1 switching element)

| | |
|-----------------------------------|----------------------------------|
| Pushbutton maintained action | 1.5 million cycles of operation |
| Pushbutton momentary action | 3 million cycles of operation |
| Selector switch maintained action | 1.25 million cycles of operation |
| Selector switch momentary action | 2.5 million cycles of operation |
| Keylock switch maintained action | 25 000 cycles of operation |
| Keylock switch momentary action | 50 000 cycles of operation |

Electrical characteristics

Standards

The switches comply with DIN EN 60947-1/DIN EN 60947-5-1

Rated insulation voltage U_i

500 V, as per DIN EN 60947-5-1

Rated impulse withstand voltage U_{imp}

4 kV, according to EN/IEC 60947-5-1

Electrical life

50 000 cycles of operation

Thermal current I_{th}

Max. current at continuous operation and limit temperatures which do not exceed the specified max. values.

6 A

Switching voltage and switching current

as per EN IEC 60947-5-1

| voltage | DC13 | AC15 |
|---------|-------|-------|
| 24 V | 2,5 A | 6,0 A |
| 48 V | | 6,0 A |
| 60 V | 0,8 A | |
| 110 V | 0,6 A | |
| 120 V | | 6,0 A |
| 230 V | | 6,0 A |

For voltages greater than $U_i = 400$ V, the grid dimensions must not be less than 35 mm x 35 mm.

Recommended minimum operational data

Gold-silver contacts:

Voltage 24 VDC

Current 5 mA

Hard silver contacts:

Voltage 24 VDC

Current 50 mA

Protection class

Indicators and switches, fit for mounting into devices with protection class II

04 Technical data

01 Ambient conditions

02 Storage temperature

03 -40 °C ... +85 °C

04 Operating temperature

05 -40 °C ... +55 °C

06 (other temperatures on request)

07 Protection degree

08 IP20

09 Shock resistance

10 (single impacts, semi-sinusoidal)

11 300 m/s² pulse width 11 ms, as per DIN EN 60068-2-27

12 Vibration resistance

13 (sinusoidal)

14 100 m/s² at 10Hz ... 500Hz, as per DIN EN 60068-2-6 and EN 61373 Increased broad band noise, class 1B

15 Pollution degree

16 3

22 Climatic resistance

23 Relative humidity

24 10 ... 95 % non-condensing

41 Lamp block

45 When using the lamp block, the application guidelines must be observed.

51 Material

56 Housing

57 Plastic

61 Mechanical characteristics

70 Terminals

71 Screw terminal

72 - max. wire cross section 2.5 mm²

73 - stripping length wire 10mm

74 - max. number of wire 2

75 - max. strand cross section 1.5 mm²

76 - stripping strands use stranded wires only with wire end ferrules of 10mm length

77 - max. number of strands 2

78 Only one polarity is allowed on each side when wiring.

Approvals

Approbations

CB (IEC 60947-5-1)

DNV

EAC

NFF

cULus

VDE

Conformities

CE

CCC

UKCA

Plug-in terminal 1 x 6.3mmx0.8mm or 2 x 2.8mmx0.8mm

For devices with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

Double plug-in terminal 2 x 6.3 mm x 0.8 mm

For units with plug-in connections, insulating sleeves are required and the mounting cut-out of 65 mm must be observed.

Tightening torque

Screws at lamp block max. 0.5 Nm

Electrical characteristics

Standards

The switches comply with DIN EN 60947-1/DIN EN 60947-5-1

Illumination

Voltage 250 V max. (many different lamp types available)

Power 2.6 W max. (many different lamp types available)

Ambient conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-40 °C ... +55 °C
(other temperatures on request)

Protection degree
IP00

Shock resistance

(single impacts, semi-sinusoidal)
300 m/s² pulse width 11 ms, as per DIN EN 60068-2-27

Vibration resistance

(sinusoidal)
100 m/s² at 10 Hz ... 500 Hz, as per DIN EN 60068-2-6 and EN 61373 Increased broad band noise, class 1B

Climatic resistance

Relative humidity
10 ... 95 % non-condensing

Lamp block PIT

When using the lamp block, the application guidelines must be observed.

Material

Housing
Plastic

Ambient conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-40 °C ... +55 °C
(other temperatures on request)

Mechanical characteristics**Terminals**

| | |
|-----------------------------|---|
| PIT push-in terminal | |
| - max. wire cross section | 1.0 mm ² |
| - stripping length wire | 8 mm |
| - max. number of wire | 2 |
| - max. strand cross section | 0.75 mm ² |
| - stripping strands | use stranded wires only with wire end ferrules of 8 mm length |
| - max. number of strands | 2 |

Protection degree

IP20

Shock resistance

(single impacts, semi-sinusoidal)
300 m/s² pulse width 11 ms, as per DIN EN 60068-2-27

Vibration resistance

(sinusoidal)
100 m/s² at 10 Hz ... 500 Hz, as per DIN EN 60068-2-6 and EN 61373 Increased broad band noise, class 1B

Climatic resistance

Relative humidity
10 ... 95 % non-condensing

Electrical characteristics**Standards**

The switches comply with EN IEC 60947-1/EN IEC 60947-5-1

Illumination

Voltage 250 V max. (many different lamp types available)
Power 2.6 W max. (many different lamp types available)

04 Technical data

01 Dual lamp block

02 When using the lamp block, the application guidelines must be observed.

03 Material

04 Housing
Plastic

09 Mechanical characteristics

14 Terminals

PIT push-in terminal

- max. wire cross section 1.0 mm²
- stripping length wire 8 mm
- max. number of wire 2

- max. strand cross section 0.75 mm²
- stripping strands use stranded wires only
with wire end ferrules
of 8 mm length
- max. number of strands 2

31 Electrical characteristics

41 Lighting

Illuminant = 2 SMD-LEDs white

45 Operating voltages

24 VDC (-30 % / +25 %)
110 VDC (-30 % / +25 %)

51 Operating current

Typ. 8 mA

56

57

61

70

71

82

84

92

96

Ambient conditions

Storage temperature
-40 °C ... +85 °C

Operating temperature
-40 °C ... +60 °C
(other temperatures on request)

Degree of protection
IP20

Resistance to shock
500 m/s², pulse duration 11 ms, according to EN IEC 60068-2-27
(semi-sinusoidal)

Broadband noise
5.72 m/s² per axis, 5 h (duration), class 1B according to
DIN EN 61373

Climatic resistance
Relative humidity
10 ... 95 % non-condensing

Approvals

Approbations
UL-94 V0
EN 45545

Buzzer**Buzzer****System**

Piezo disc

Electrical characteristics**Operation Voltage/Current**Operation Voltage 24 VDC $\pm 10\%$ Operation Current $\leq 25\text{ mA}$ **Material****Buzzer case**

Plastic

Ambient conditions**Storage temperature** $-40^\circ\text{C} \dots +85^\circ\text{C}$ **Front cap****Flush design**

Aluminium black anodised

Aluminium natural anodised

Operating temperature $-40^\circ\text{C} \dots +55^\circ\text{C}$

(other temperatures on request)

Raised design

Plastic

Metal = nickel-plated brass (sea-water proof)

Protection degree

As per DIN EN 60529, frontside

IP65

Mechanical characteristics**Terminals**

Plug-in terminal 2.8 mm x 0.5 mm

Approvals**Conformities**

CE

2014/35/EU (LVD)

2011/65/EC (RoHS)

Tightening torque

For fixing nut max. 0.25 Nm

Acoustic characteristics**Frequency (tone)**

Approx. 3.2 kHz continuous tone only

Sound pressure95 db (A) $\pm 8\text{ dB}$ at a distance of 0.1 m

04 Technical data

01 Actuator

02 Material

03 Front ring

Polyamide, Aluminium or Stainless steel

04 Mounting flange

Plastic, metal

09 Actuator housing

Plastic

14 Mechanical characteristics

17 Actuating force

Mounting style square flush 6.2 N

Other mounting styles 8N

18 Actuating travel

Approx. 5.8 mm \pm 0.2 mm

19 Mechanical lifetime

(with 1 switching element)

Pushbutton

\leq 3 million cycles of operation

Selector switch

\leq 2.5 million cycles of operation

Stop switch

\leq 50 000 cycles of operation

Fool proofed E-stop

\geq 50 000 cycles of operation

Keylock switch

\leq 50 000 cycles of operation

Key insert switches

\leq 250 000 cycles of operation

05 Keylock switch

The standard lock number is 251, the last digit of the device Part No. = 0 (example: 704.335.0).

Additional lock numbers are available:

252 last digit = 1; 253 last digit = 2; 254 last digit = 3

255 last digit = 4, 256 last digit = 5; 257 last digit = 6

258 last digit = 7; 259 last digit = 8; 260 last digit = 9

09 Electrical characteristics

14 Standards

The switches comply with the "Rules for low-voltage switching devices" EN IEC 60947-5-1

17 Ambient conditions

18 Storage temperature

$-40^{\circ}\text{C} \dots +85^{\circ}\text{C}$

19 Operating temperature

$-40^{\circ}\text{C} \dots +55^{\circ}\text{C}$

(other temperatures on request)

22 Protection degree

As per EN IEC 60529

IP65 front side (IP65 and IP67 Key insert switch)

51 Kraus Naimer rotary selector switching element

56 Mechanical characteristics

57 Terminals

Screw terminals

Terminal lead material copper wires only

Max. permissible wire gage:

Single-core or stranded wire 2 x 1.5 mm² (2 x AWG 14)

Flexible wire 2 x 1.5 mm² (2 x AWG 16)

57 Switching angle

Basic position of switching position "A" is 9 o'clock

Maintained action Switching angle

12 max. 30°

8 max. 45°

6 max. 60°

4 max. 90°

70 Tightening torque

For fixing nut max. 0.25 Nm

Momentary action with release 24°

(provide at the beginning or at the end)

71 Number of stages

1 to 8 positions max.

82 Standard type of Kraus & Naimer

CG4 Hard Silver contacts with 1 μm Gold layer

CG4-1 Hard Silver contacts with 35 μm Gold layer

84 Number of contacts

1 to 16 max. normally open contacts

(contact positioning according circuit drawing)

Electrical characteristics

Minimum Voltage
20V

Rated Impulse Withstand Voltage U_{imp}
4kV

Short Circuit Protection

Max. fuse size (gL-characteristic) 10A
Rated short-time withstand current (1s-current) 90A

Electrical characteristics for AC

Standards

The devices comply with: DIN EN 60947-3, VDE 0660 part 107

Rated Operational Voltage U_o
440V

Rated Insulation Voltage U_i
440V

Rated Thermal Current I_u / I_{th}
10A

Rated Operational Current I_o
AC-15 Switching of control devices, contactors, valves etc.

110V–120V 2.5A
220V–240V 2.5A
380V–440V 1.5A

No load operation
10A

AC-21A Switching of resistive loads, including moderate overloads
For switching of power > 1kW
10A

AC-22A Switching of combined resistive or low inductive loads
including moderate overloads
220V–240V 10A

Rated Utilization Category
AC-2 Slip ring motor starting, reversing and plugging, star-delta starting 3 phase, 3 pole

220V–240V 2.5kW
380V–440V 4.5kW

AC-3 Direct-on-line starting, star-delta starting

3 phase, 3 pole 220V–240V 2.50 kW
380V–440V 2.20 kW
1 phase, 2 pole 110V–120V 0.30 kW
220V–240V 0.55 kW
380V–440V 0.75 kW

AC-Direct-on-line starting, reversing, plugging and inching

| | | |
|-----------------|-----------|---------|
| 3 phase, 3 pole | 220V–240V | 0.37 kW |
| | 380V–440V | 0.55 kW |
| 1 phase, 2 pole | 110V–120V | 0.15 kW |
| | 220V–240V | 0.25 kW |
| | 380V–440V | 0.50 kW |

AC-23A Frequent switching of motors or other high inductive loads

| | | |
|-----------------|-----------|---------|
| 3 phase, 3 pole | 220V–240V | 1.80 kW |
| | 380V–440V | 3.00 kW |
| 1 phase, 2 pole | 110V–120V | 0.37 kW |
| | 220V–240V | 0.75 kW |
| | 380V–440V | 1.10 kW |

Overvoltage category

III, valid for lines with grounded common neutral termination

Degree of pollution

3, valid for lines with grounded common neutral termination

Electrical characteristics for AC (UL/Canada)

Rated operational voltage
300V

Rated Insulation Voltage U_i
300V

Rated Thermal Current
10A

Ampere Rating

Resistive or low inductive loads, for switching of power > 1kW, 10A

Ratings
Standard motor load, DOL Rating (similar AC-3)

| | | |
|-----------------|-----------|---------|
| 3 phase, 3 pole | 110V–120V | 0.75 HP |
| | 220V–240V | 1.00 HP |
| 1 phase, 2 pole | 110V–120V | 0.33 HP |
| | 220V–240V | 0.75 HP |
| | 277V–277V | 0.75 HP |

Pilot Duty, Heavy
300 VAC

04 Technical data

Electrical characteristics for DC

Switching voltage and switching current DC

Resistive loads $T \leq 1$ ms

Number of series contact(s)

| 1 | 2 | 3 | 4 | 5 | 6 | 8 |
|------|------|------|------|------|------|------|
| 24V | 48V | 70V | 95V | 120V | 145V | 190V |
| 48V | 95V | 140V | 190V | 240V | 290V | 350V |
| 60V | 120V | 180V | 240V | 300V | 360V | 450V |
| 110V | 220V | 330V | 440V | 550V | 660V | |
| 220V | 440V | 660V | | | | |
| 440V | 660V | | | | | |

Inductive loads $T = 50$ ms

Number of series contact(s)

| 1 | 2 | 3 | 4 | 5 | 6 | 8 | Switch capacity |
|------|------|------|------|------|------|------|-----------------|
| 24V | 48V | 70V | 95V | 120V | 145V | 190V | 6.0A |
| 30V | 60V | 90V | 120V | 150V | 180V | 240V | 3.0A |
| 48V | 95V | 140V | 190V | 240V | 290V | 350V | 1.0A |
| 60V | 120V | 180V | 240V | 300V | 360V | 450V | 0.7A |
| 110V | 220V | 330V | 440V | 550V | 660V | | 0.3A |
| 220V | 440V | 660V | | | | | |
| 440V | 660V | | | | | | |

Ambient conditions

Operating temperature

Ambient Temperatures of Stages

open at 100 % I_u / I_{th} 55 °C during 24 h with peaks up to 60 °C
enclosed at 100 % I_{the} 35 °C during 24 h with peaks up to 40 °C

Santon rotary selector switching element

Mechanical characteristics

Terminals

Screw terminals

Terminal lead material copper wires only

Max. wire gauge:

Single or multi-wire 2 x 1.5 mm² (2 x AWG 12)

Fine wire 2 x 1.5 mm² (2 x AWG 12)

Min. wire gauge:

Single or multi-wire 2 x 0.5 mm² (2 x AWG 20)

Fine wire 2 x 0.5 mm² (2 x AWG 20)

Tightening torque

For fixing nuts max. 0.5 Nm

Number of stages

1 to 8 stages max.

Number of contacts

1 to 16 closing contacts

(contacts positioning according to wiring diagram)

Switching angle

Basic position of switching position "A" is 9 o'clock

Maintained action switching angle

12 max. 30°

8 max. 45°

6 max. 60°

4 max. 90°

Momentary action with release 30°

Standard type of Santon

F1V Hard Silver contacts Gold plated

Electrical Characteristics

Minimum Voltage

20V

Rated Impulse Withstand Voltage U_{imp}

4KV

Short Circuit Protection

Max. fuse size (gL-characteristics)

25KA = > 16A

10KA = > 20A

Rated short-time withstand current (1s-current) 250A

Electrical Characteristics for AC

Standards

The devices comply with: IEC 60947, IEC 60204, DIN EN 61058, UL508, C22.2 No.14

Rated Operational Voltage U_o

480 V

Rated Insulation Voltage U_i

480 V

Rated Operational Current I_o

AC-15 switching of control devices, contractors, valves, etc.

220V – 230V 8 A

380V – 440V 6 A

AC-20A no load operation

20A

AC-21A Switching of resistive loads, including moderate overloads for switching of power $> 1\text{ kW}$

20 A

AC-23 Switching of motors or other high-inductive loads

3-phase, 3-pole 220V – 230V 5,00kW
380V – 440V 7,50kW

1-phase, 2-pole 220V – 230V 2,50kW
380V – 440V 3,70kW

Related Utilization Category

AC-3 Direct starting of squirrel-cage induction motors, switching off during the starting, star-delta starting

3-phasing, 3-polig 220V – 240V 3,00kW
380V – 440V 5,00kW

1-phasing, 2-polig 220V – 230V 2,20kW
380V – 440V 3,00kW

Degree of pollution

3, valid for lines with grounded common neutral termination

Electrical characteristics for AC (UL/Canada)

Rated operational voltage
300V

Rated Insulation Voltage U_i
300V

Rated Thermal Current
15A

Ampere Rating
Resistive or low inductive loads, for switching of power
 $> 1\text{ kW}$, 15A

Ratings
Standard motor load, DOL Rating (similar to AC-3)

3-phase, 3-pole 220V – 240V 3.00 HP

Electrical characteristics for DC

Switching voltage and switching current DC

Resistive loads $T \leq 1\text{ ms}$ DC 21

Number of series contact(s)

| 1 | 2 | 5 | 8 | Switch capacity |
|-------|-------|-------|-------|-----------------|
| 24 V | 110 V | 220 V | 440 V | 20.0 A |
| 48 V | | | | 20.0 A |
| 60 V | | | | 20.0 A |
| 110 V | | | | 4.0 A |
| 220 V | | | | 0.7 A |
| 440 V | | | | 0.25 A |

Inductive Loads $T = 50\text{ ms}$ DC13

| 1 | 2 | 3 | 6 | 8 | Switch capacity |
|-------|------|------|-------|------|-----------------|
| 24 V | 48 V | 60 V | 110 V | 220V | 20.0 A |
| 48 V | | | | | 16.0 A |
| 60 V | | | | | 12.0 A |
| 110 V | | | | | 1.0 A |
| 220 V | | | | | 0.4 A |
| 440 V | | | | | 0.15 A |

Ambient conditions

Operating Temperature

Ambient Temperature of Stages
 $-25^\circ\text{C} \dots +55^\circ\text{C}$

Shock resistance

(single impact, semi-sinusoidal)
300 m/s² pulse width 11 ms, as per DIN EN 600068-2-27

Fire Protection norms

EN 45545

04 Technical data

01 Flasher

02 Material

03 Housing

Plastic, in accordance with UL 94 V0

Ambient conditions

Operating temperature

0° ... +50 °C

Protection degree

Rear side IP30

04 Mechanical characteristics

09 Terminals

Screw terminal

14 Electrical characteristics

17 Flasher frequency

1.5Hz

18 Relative duty factor

Approx. 50 %

22

31

41

45

51

56

57

61

70

71

82

84

92

EAO reserves the right to alter specifications without further notice.

96

General notes

1. Engraving

In addition to the most commonly used world languages, in DIN1451-3 close spacing, other typefaces are available as Scandinavian, Slavic, Greek, Russian and Polish. Red, blue and black lenses are filled with white colour. Other colour lenses are filled in black. Standard height of letters is 3 mm. If the height is not specified, we will supply 3 mm engraved letters.

2. Hot stamping

For larger series it is worth considering markings by means of hot stamping. We will pleased to advise you. For letters and figures, typefaces with 2.5 mm, 3 mm and 4 mm are available.

3. Film inserts

Instead of using engraving the square lenses can be fitted with film inserts, as an alternative. Film thickness is 0.25 mm. Max. film size: for Indicator 24.5 x 24.5 mm, for illuminated pushbutton 21.5 x 21.5 mm.

Engraving marking cap for Indicator round, full face illumination

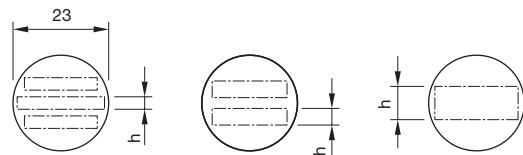
All dimensions in mm

| Height of text cap | Height of letters h | Number of lines | Number of capital letters per line (guide value) | Number of lowercase letters per line (guide value) | Picture |
|--------------------|---------------------|-----------------|--|--|---------|
| Text cap (Ø 23) | 3 | 3 | 8-9 | 9-10 | B1 |
| | 4 | 3 | 5-7 | 6-8 | B1 |
| | 8 | 3 | - | - | B1 |
| | 3 | 2 | 8 | 9 | B2 |
| | 4 | 2 | 5 | 6 | B2 |
| | 8 | 2 | 2 | 2 | B2 |
| | 3 | 1 | 9 | 10 | B3 |
| | 4 | 1 | 7 | 8 | B3 |
| | 8 | 1 | 3 | 3-4 | B3 |

B1

B2

B3



The gap between two words results in each case a letter less.

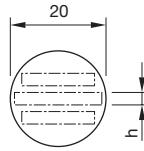
04 Marking

Engraving marking plate for Indicator and illuminated Pushbutton round, front illumination

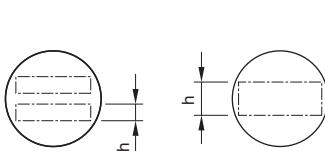
All dimensions in mm

| Height of marking plate | Height of letters h | Number of lines | Number of capital letters per line (guide value) | Number of lowercase letters per line (guide value) | Picture |
|-------------------------|---------------------|-----------------|--|--|---------|
| Marking plate (Ø 20) | 3 | 3 | 6-8 | 7+9 | B1 |
| | 4 | 3 | 5-6 | 6-7 | B1 |
| | 8 | 3 | - | - | B1 |
| | 3 | 2 | 6 | 7 | B2 |
| | 4 | 2 | 5 | 6 | B2 |
| | 8 | 2 | 1 | 2 | B2 |
| | 3 | 1 | 8 | 9 | B3 |
| | 4 | 1 | 6 | 7 | B3 |
| | 8 | 1 | 3 | 3 | B3 |

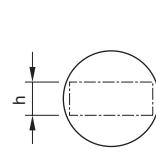
B1



B2



B3

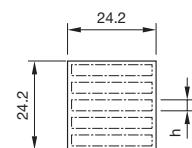


The gap between two words results in each case a letter less.

Engraving diffusor cap for Indicator square, full face illumination

All dimensions in mm

| Height of letters h | Number of lines | Number of capital letters per line (guide value) | Number of lowercase letters per line (guide value) |
|---------------------|-----------------|--|--|
| 2.5 | 6 | 12 | 13 |
| 3.0 | 5 | 10 | 11 |
| 4.0 | 4 | 7 | 8 |
| 5.0 | 3 | 6 | 7 |
| 6.0 | 3 | 5 | 5-6 |
| 8.0 | 2 | 4 | 4-5 |

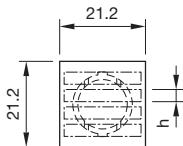


The gap between two words results in each case a letter less.

Engraving lens holder for Indicator and Illuminate Pushbutton square, front illumination

All dimensions in mm

| Height of letters h | Number of lines | Number of capital letters per line (guide value) | Number of lowercase letters per line (guide value) |
|---------------------|-----------------|--|--|
| 2.5 | 5 | 10 | 11 |
| 3.0 | 5 | 9 | 9-10 |
| 4.0 | 4 | 6 | 7 |
| 5.0 | 3 | 5 | 6 |
| 6.0 | 1 | 4 | 4-5 |
| 8.0 | 2 | 2-3 | 3 |



The gap between two words results in each case a letter less.

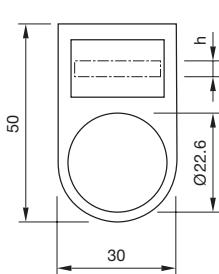
Important: Consider lens holder mounting orientation before specifying engraving characters!

Engraving legend plates

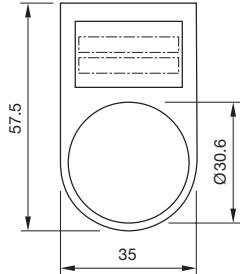
All dimensions in mm

| Dimension | Devices mounting style | Height of letters h | Number of lines | Number of capital letters per line (guide value) | Number of lowercase letters per line (guide value) | Picture |
|-----------|------------------------|---------------------|-----------------|--|--|---------|
| 30 x 50 | round, raised | 3 | 2 | 10 | 11 | B1 |
| | | 4 | 1 | 7 | 8 | B1 |
| | | 8 | 1 | 3 | 4 | B1 |
| 35 x 57.5 | round, flush | 3 | 2 | 10 | 11 | B2 |
| | | 4 | 1 | 7 | 8 | B2 |
| | | 8 | 1 | 3 | 4 | B2 |
| 18 x 35 | square, flush | 3 | 3 | 15 | 16 | B3 |
| | | 4 | 2 | 10 | 12 | B3 |

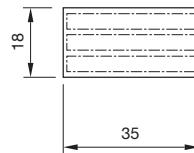
B1



B2



B3



The gap between two words results in each case a letter less.

04 Marking

Standard texts for marking plates and marking caps for Indicator and Illuminated Pushbutton

01

Height of letters 6 mm

02

| | | | | | | | |
|--|-------------------------|---|-------------------------|--|-------------------------|---|-------------------------|
|  I | Part No. 704.609.912001 |  II | Part No. 704.609.912002 |  III | Part No. 704.609.912003 |  O | Part No. 704.609.912004 |
|  EIN | Part No. 704.609.912005 |  AUS | Part No. 704.609.912006 |  AUF | Part No. 704.609.912007 |  AB | Part No. 704.609.912008 |
|  START | Part No. 704.609.912009 |  STOP | Part No. 704.609.912010 |  HAND | Part No. 704.609.912011 |  AUTO | Part No. 704.609.912012 |
|  ZU | Part No. 704.609.912013 |  ON | Part No. 704.609.912014 |  OFF | Part No. 704.609.912015 |  ARRET | Part No. 704.609.912016 |
|  MARCHE | Part No. 704.609.912017 |  RESET | Part No. 704.609.912018 | | | | |

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Symbols for marking plates and marking caps for Indicator and Illuminated Pushbutton

All marking plates with the printed article-numbers are available for flat lenses, marking cap only on request.

| | | | | | | | |
|--|--|--|---|--|---|--|---|
| | Part No. 704.609.910001 Direction of linear rectilinear motion (also for → ↓↑) | | Part No. 704.609.910002 Linear motion in 2 directions (also for ↑↓) | | Part No. 704.609.910004 Limited linear motion (also for → ↑↓) | | Part No. 704.609.910007 Direction of continuous rotation (right) |
| | Part No. 704.609.910071 Direction of continuous rotation (left) | | Part No. 704.609.910008 Rotation in 2 directions | | Part No. 704.609.910009 Direction of interrupted rotation (right) | | Part No. 704.609.910010 Limited rotation (right) |
| | Part No. 704.609.9100101 Limited rotation (left) | | Part No. 704.609.910013 Direction of spindle rotation | | Part No. 704.609.910026 Rapid traverse | | Part No. 704.609.910028 Increase of value (speed, for instance) |
| | Part No. 704.609.910029 Decrease of value (speed, for instance) | | Part No. 704.609.910041 Electric motor | | Part No. 704.609.910048 Pump (general symbol) | | Part No. 704.609.9100631 Lock or tighten |
| | Part No. 704.609.9100632 Lock or tighten | | Part No. 704.609.9100641 Unlock, unclamp | | Part No. 704.609.9100642 Unlock, unclamp | | Part No. 704.609.910065 Brake on |
| | Part No. 704.609.910066 Brake off | | Part No. 704.609.910067 Automatic (or semi-automatic) cycle | | Part No. 704.609.910068 Hand control | | Part No. 704.609.910069 Start, on |
| | Part No. 704.609.910070 Stop, off | | Part No. 704.609.910071 Start and stop with same button | | Part No. 704.609.910072 In action as long as button is operated | | Part No. 704.609.910074 Engaging (mechanical start) |
| | Part No. 704.609.910075 Disengaging (mechanical stop) | | Part No. 704.609.910092 Danger (high voltage)! | | Part No. 704.609.910093 Caution! | | Part No. 704.609.910101 Coolant fluid |
| | Part No. 704.609.910102 Machine lighting | | Part No. 704.609.910108 Blast | | | | |

04 Marking

Terminal Markings

01

02

03

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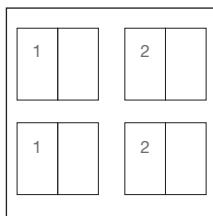
96

We supply the switch elements with terminal marking labels inserted, the figures always being visible for the first element (immediately following the actuator). Therefore, when two switch elements are used, these inserts have to be turned for the second element. Then the numbers appear as described under III.

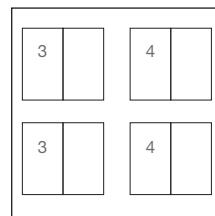
If more than two switch elements are used, this should be noted on your order, in order that we may insert and deliver the marking labels accordingly.

I. Consecutive numbering of switch systems (2 per switch element)

First switch element



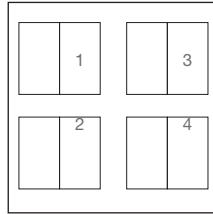
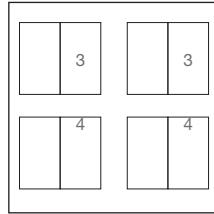
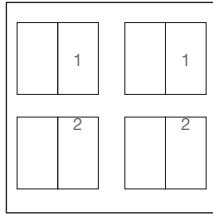
Second switch element



When more than 2 switch elements are used, the numbering is sequenced accordingly (5, 6 etc.).

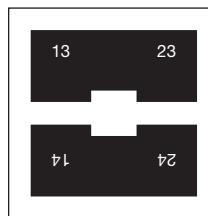
II. Marking of normally closed contact, normally open contact and their combinations

Normally closed (1–2) Normally open (3–4) Normally closed/open

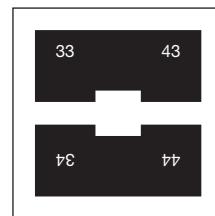


III. Example of the correct insertion of the labels for 2 switch elements with normally open contacts

First switch element



Second switch element



Labels for normally closed and normally closed/normally open contacts should be inserted accordingly.

Suppressor circuits

When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

Fig. 1 shows an inductive load with a free-wheeling diode connected in parallel. This free-wheeling diode provides a path for the inductor current to flow when the current is interrupted by the switch. Without this free-wheeling diode, the voltage across the coil will be limited only by dielectric breakdown voltages of the circuit or parasitic elements of the coil. This voltage can be kilo-

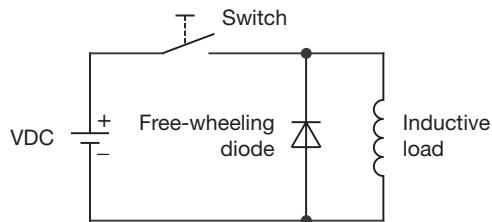
volts in amplitude even when nominal circuit voltages are low (e.g. 12VDC) see Fig. 2.

The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (VR) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current flowing through the load.

To get an efficient protection, the free-wheeling diode must be connected as close as possible to the inductive load!

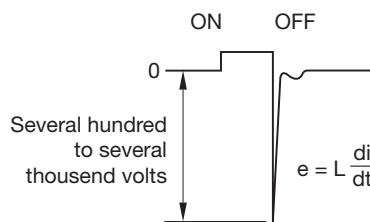
Switching with inductive load

Fig. 1



Counter EMF
over load without free-wheeling diode

Fig. 2



04 Application guidelines

Rating data

The following guidelines apply when connecting the Series 04 buttons.

Buttons with 1 slow-make switching element and front panel made of plastic or metal

- Pushbutton
- Mushroom-head pushbutton
- Selector switch
- Keylock switch
- Key-insert switch
- Stop switch
- Emergency stop switch

Rated values

| | |
|-------------------------------------|-------|
| Overvoltage category | III |
| Rated impulse withstand voltage | 4 kV |
| Max. rated insulation voltage U_i | 500 V |
| Pollution degree | 3 |

Restrictions

- Metal front panel must be earthed

Buttons with 1 snap-action switching element and front panel made of plastic or metal

- Pushbutton
- Mushroom-head pushbutton
- Selector switch
- Keylock switch
- Key-insert switch
- Stop switch

Rated values

| | |
|-------------------------------------|-------|
| Overvoltage category | III |
| Rated impulse withstand voltage | 4 kV |
| Max. rated insulation voltage U_i | 500 V |
| Pollution degree | 3 |

Restrictions

- Metal front panel must be earthed

Buttons illuminable with 1 slow-make switching element and front panel made of plastic or metal

- Illuminated pushbutton
- Mushroom-head pushbutton
- Selector switch

Rated values

| | |
|-------------------------------------|-------|
| Overvoltage category | III |
| Rated impulse withstand voltage | 4 kV |
| Max. rated insulation voltage U_i | 400 V |
| Pollution degree | 3 |

Restrictions

- Metal front panel must be earthed

Buttons illuminable with 1 snap-action switching element and front panel made of plastic or metal

- Illuminated pushbutton
- Mushroom-head pushbutton
- Selector switch

Rated values

| | |
|-------------------------------------|-------|
| Overvoltage category | III |
| Rated impulse withstand voltage | 4 kV |
| Max. rated insulation voltage U_i | 500 V |
| Pollution degree | 3 |

Restrictions

- Metal front panel must be earthed

Buttons with 1 slow-make switching element and front panel made of plastic or metal

- Key-insert switch, conductor switch

Rated values

| | |
|-------------------------------------|-------|
| Overvoltage category | III |
| Rated impulse withstand voltage | 4 kV |
| Max. rated insulation voltage U_i | 250 V |
| Pollution degree | 3 |

Restrictions

- The actuator of the conductor button must be earthed

Buttons with 1 snap-action switching element and front panel made of plastic or metal

- Key-insert switch, conductor switch

Rated values

| | |
|-------------------------------------|-------|
| Overvoltage category | III |
| Rated impulse withstand voltage | 4 kV |
| Max. rated insulation voltage U_i | 320 V |
| Pollution degree | 3 |

Restrictions

- Metal front panel must be earthed

| | | | | | | | | | | | | | | | | | |
|---|---|-----|---------------------------------|------|-------------------------------------|-------|------------------|---|---|----------------------|-----|---------------------------------|------|-------------------------------------|-------|------------------|---|
| <p>Buttons with 2 – 3 slow-make switching element and front panel made of plastic or metal</p> <ul style="list-style-type: none"> ▪ Pushbutton ▪ Mushroom-head pushbutton ▪ Selector switch ▪ Keylock switch ▪ Key-insert switch ▪ Stop switch | <p>Buttons illuminable with 2 – 3 snap-action switching element and front panel made of plastic or metal</p> <ul style="list-style-type: none"> ▪ Illuminated pushbutton ▪ Mushroom-head pushbutton ▪ Selector switch | | | | | | | | | | | | | | | | |
| <p>Rated values</p> <table> <tr> <td>Overvoltage category</td> <td>III</td> </tr> <tr> <td>Rated impulse withstand voltage</td> <td>4 kV</td> </tr> <tr> <td>Max. rated insulation voltage U_i</td> <td>320 V</td> </tr> <tr> <td>Pollution degree</td> <td>3</td> </tr> </table> | Overvoltage category | III | Rated impulse withstand voltage | 4 kV | Max. rated insulation voltage U_i | 320 V | Pollution degree | 3 | <p>Rated values</p> <table> <tr> <td>Overvoltage category</td> <td>III</td> </tr> <tr> <td>Rated impulse withstand voltage</td> <td>4 kV</td> </tr> <tr> <td>Max. rated insulation voltage U_i</td> <td>400 V</td> </tr> <tr> <td>Pollution degree</td> <td>3</td> </tr> </table> | Overvoltage category | III | Rated impulse withstand voltage | 4 kV | Max. rated insulation voltage U_i | 400 V | Pollution degree | 3 |
| Overvoltage category | III | | | | | | | | | | | | | | | | |
| Rated impulse withstand voltage | 4 kV | | | | | | | | | | | | | | | | |
| Max. rated insulation voltage U_i | 320 V | | | | | | | | | | | | | | | | |
| Pollution degree | 3 | | | | | | | | | | | | | | | | |
| Overvoltage category | III | | | | | | | | | | | | | | | | |
| Rated impulse withstand voltage | 4 kV | | | | | | | | | | | | | | | | |
| Max. rated insulation voltage U_i | 400 V | | | | | | | | | | | | | | | | |
| Pollution degree | 3 | | | | | | | | | | | | | | | | |
| <p>Restrictions</p> <ul style="list-style-type: none"> ▪ Metal front panel must be earthed | <p>Restrictions</p> <ul style="list-style-type: none"> ▪ Metal front panel must be earthed | | | | | | | | | | | | | | | | |
| <p>Buttons with 2 – 3 snap-action switching element and front panel made of plastic or metal</p> <ul style="list-style-type: none"> ▪ Pushbutton ▪ Mushroom-head pushbutton ▪ Selector switch ▪ Keylock switch ▪ Key-insert switch ▪ Stop switch | <p>Buttons with 2 slow-make switching element and front panel made of plastic or metal</p> <ul style="list-style-type: none"> ▪ Emergency stop switch | | | | | | | | | | | | | | | | |
| <p>Rated values</p> <table> <tr> <td>Overvoltage category</td> <td>III</td> </tr> <tr> <td>Rated impulse withstand voltage</td> <td>4 kV</td> </tr> <tr> <td>Max. rated insulation voltage U_i</td> <td>400 V</td> </tr> <tr> <td>Pollution degree</td> <td>3</td> </tr> </table> | Overvoltage category | III | Rated impulse withstand voltage | 4 kV | Max. rated insulation voltage U_i | 400 V | Pollution degree | 3 | <p>Rated values</p> <table> <tr> <td>Overvoltage category</td> <td>III</td> </tr> <tr> <td>Rated impulse withstand voltage</td> <td>4 kV</td> </tr> <tr> <td>Max. rated insulation voltage U_i</td> <td>320 V</td> </tr> <tr> <td>Pollution degree</td> <td>3</td> </tr> </table> | Overvoltage category | III | Rated impulse withstand voltage | 4 kV | Max. rated insulation voltage U_i | 320 V | Pollution degree | 3 |
| Overvoltage category | III | | | | | | | | | | | | | | | | |
| Rated impulse withstand voltage | 4 kV | | | | | | | | | | | | | | | | |
| Max. rated insulation voltage U_i | 400 V | | | | | | | | | | | | | | | | |
| Pollution degree | 3 | | | | | | | | | | | | | | | | |
| Overvoltage category | III | | | | | | | | | | | | | | | | |
| Rated impulse withstand voltage | 4 kV | | | | | | | | | | | | | | | | |
| Max. rated insulation voltage U_i | 320 V | | | | | | | | | | | | | | | | |
| Pollution degree | 3 | | | | | | | | | | | | | | | | |
| <p>Restrictions</p> <ul style="list-style-type: none"> ▪ Metal front panel must be earthed | <p>Restrictions</p> <ul style="list-style-type: none"> ▪ Metal front panel must be earthed | | | | | | | | | | | | | | | | |
| <p>Buttons illuminable with 2 – 3 slow-make switching element and front panel made of plastic or metal</p> <ul style="list-style-type: none"> ▪ Illuminated pushbutton ▪ Mushroom-head pushbutton ▪ Selector switch | <p>Buttons illuminable with 2 – 3 slow-make switching element and front panel made of plastic or metal</p> <ul style="list-style-type: none"> ▪ Illuminated pushbutton ▪ Mushroom-head pushbutton ▪ Selector switch | | | | | | | | | | | | | | | | |
| <p>Rated values</p> <table> <tr> <td>Overvoltage category</td> <td>III</td> </tr> <tr> <td>Rated impulse withstand voltage</td> <td>4 kV</td> </tr> <tr> <td>Max. rated insulation voltage U_i</td> <td>320 V</td> </tr> <tr> <td>Pollution degree</td> <td>3</td> </tr> </table> | Overvoltage category | III | Rated impulse withstand voltage | 4 kV | Max. rated insulation voltage U_i | 320 V | Pollution degree | 3 | <p>Rated values</p> <table> <tr> <td>Overvoltage category</td> <td>III</td> </tr> <tr> <td>Rated impulse withstand voltage</td> <td>4 kV</td> </tr> <tr> <td>Max. rated insulation voltage U_i</td> <td>320 V</td> </tr> <tr> <td>Pollution degree</td> <td>3</td> </tr> </table> | Overvoltage category | III | Rated impulse withstand voltage | 4 kV | Max. rated insulation voltage U_i | 320 V | Pollution degree | 3 |
| Overvoltage category | III | | | | | | | | | | | | | | | | |
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