

PT 4-L/HESILED 24 (5X20) - Fuse modular terminal block



3002609

<https://www.phoenixcontact.com/us/products/3002609>

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Fuse modular terminal block, fuse type: Glass / ceramics / ..., fuse type: G / 5 x 20, nom. voltage: 24 V, nominal current: 28 A, connection method: Push-in connection, Rated cross section: 4 mm², cross section: 0.2 mm²- 6 mm², connection method: Push-in connection, Rated cross section: 4 mm², cross section: 0.2 mm²- 6 mm², mounting type: NS 35/7,5, NS 35/15, color: black

Your advantages

- Easy and tool-free direct plug-in thanks to push-in multi-conductor connection

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 3002609 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | BE22 |
| Product key | BE2236 |
| GTIN | 4055626370231 |
| Weight per piece (including packing) | 27.837 g |
| Weight per piece (excluding packing) | 25.98 g |
| Customs tariff number | 85369095 |
| Country of origin | IN |

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Technical data

Notes

| | |
|---------|---|
| General | The current is determined by the fuse used, the voltage by the selected LED. If the fuse is faulty, the downstream circuit will not be disconnected. |
|---------|---|

Product properties

| | |
|-----------------------|---------------------|
| Product type | Fuse terminal block |
| Number of connections | 4 |
| Number of rows | 3 |
| Potentials | 2 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|---|--|
| Fuse type | Glass / ceramics / ... |
| Rated surge voltage | 6 kV |
| Maximum power dissipation for nominal condition | 1.02 W |
| Fuse | G / 5 x 20 |
| LED voltage range | 12 V AC/DC ... 30 V AC/DC |
| LED current range | 0.31 mA ... 0.95 mA |
| Maximum power dissipation | max. 1.6 W (with single arrangement of the fuse terminal block in the event of overload) max. 1.6 W (With interconnected arrangement of several fuse terminal blocks in the event of overload) max. 4 W (with single arrangement of the fuse terminal block in the event of a short-circuit) max. 2.5 W (With interconnected arrangement of several fuse terminal blocks in the event of a short-circuit) |

Input data

| | |
|-------------------|---------------------------|
| LED voltage range | 12 V AC/DC ... 30 V AC/DC |
|-------------------|---------------------------|

Connection data

| | |
|---------------------------------|-------------------|
| Number of connections per level | 2 |
| Nominal cross section | 4 mm ² |

Level 1

| | |
|----------------------------------|---|
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Internal cylindrical gage | A4 |
| Connection in acc. with standard | IEC 60947-7-3 |
| Conductor cross-section rigid | 0.2 mm ² ... 6 mm ² |

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3002609

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| | |
|---|--|
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible ultrasound-compressed | 0.34 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] ultrasound-compressed | 22 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm² ... 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal current | 28 A |
| Maximum load current | 32 A (with 6 mm² conductor cross-section, rigid) |
| Nominal voltage | 24 V |
| Nominal cross section | 4 mm² |

Level 2

| | |
|---|--|
| Connection method | Push-in connection |
| Stripping length | 10 mm ... 12 mm |
| Connection in acc. with standard | IEC 60947-7-3 |
| Conductor cross-section rigid | 0.2 mm² ... 6 mm² |
| Cross section AWG | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible | 0.2 mm² ... 6 mm² |
| Conductor cross-section, flexible [AWG] | 24 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.25 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.25 mm² ... 4 mm² |
| 2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve | 0.5 mm² ... 1 mm² |
| Nominal current | 6.3 A |
| Maximum load current | 6.3 A (the current is determined by the fuse used) |
| Nominal voltage | 24 V (the voltage is determined by the light indicator.) |
| Nominal cross section | 4 mm² |

Level 1 Connection cross sections directly pluggable

| | |
|---|-----------------------------------|
| Conductor cross-section rigid | 0.5 mm² ... 6 mm² |
| Conductor cross-section, rigid [AWG] | 20 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |

Level 2 Connection cross sections directly pluggable

| | |
|---|-----------------------------------|
| Conductor cross-section rigid | 0.5 mm² ... 6 mm² |
| Conductor cross-section, rigid [AWG] | 20 ... 10 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.5 mm² ... 4 mm² |
| Flexible conductor cross-section (ferrule with plastic sleeve) | 0.5 mm² ... 4 mm² |

Ex data

Rated data (ATEX/IECEx)

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3002609

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| | |
|--|-------------------------------------|
| Identification | Ex II 3 G Ex ec IIC Gc |
| Operating temperature range | -60 °C ... 130 °C |
| Ex-certified accessories | 3002619 D-PT 4-PE/L/HESI |
| | 1205066 SZS 1,0X4,0 VDE |
| | 3022276 CLIPFIX 35-5 |
| | 3022218 CLIPFIX 35 |
| List of bridges | Plug-in bridge / FBS 2-6 / 3030336 |
| | Plug-in bridge / FBS 3-6 / 3030242 |
| | Plug-in bridge / FBS 4-6 / 3030255 |
| | Plug-in bridge / FBS 5-6 / 3030349 |
| | Plug-in bridge / FBS 10-6 / 3030271 |
| | Plug-in bridge / FBS 20-6 / 3030365 |
| Bridge data | 19 A / 4 mm² |
| for bridging with bridge | 275 V |
| - At bridging between non-adjacent terminal blocks | 275 V |
| - At cut-to-length bridging with cover | 275 V |
| Rated insulation voltage | 250 V |
| output | (Permanent) |

Ex level General

| | |
|---------------|-------|
| Rated voltage | 275 V |
|---------------|-------|

Ex connection data General

| | |
|------------------------------|-------------------|
| Nominal cross section | 4 mm² |
| Rated cross section AWG | 12 |
| Connection capacity rigid | 0.2 mm² ... 6 mm² |
| Connection capacity AWG | 24 ... 10 |
| Connection capacity flexible | 0.2 mm² ... 4 mm² |
| Connection capacity AWG | 24 ... 12 |
| output | (Permanent) |

Ex level Level 2

| | |
|----------------------|-------------------|
| Rated current | 29 A (4 mm²) |
| Maximum load current | 32 A (6 mm²) |
| Contact resistance | 0.9 mΩ |
| Temperature increase | 40 K (29 A/4 mm²) |
| output | (Permanent) |

Ex level Level 3

| | |
|----------------------|---------------|
| Rated current | 6.3 A (4 mm²) |
| Maximum load current | 6.3 A (6 mm²) |
| Contact resistance | 5 mΩ |

Dimensions

| | |
|--------|----------|
| Width | 6.2 mm |
| Height | 119.5 mm |

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3002609

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| | |
|--------------------|---------|
| Depth | 82.6 mm |
| Depth on NS 35/7,5 | 84.1 mm |
| Depth on NS 35/15 | 91.6 mm |

Material specifications

| | |
|--|------------------|
| Color | black (RAL 9005) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |

Mechanical properties

Mechanical data

| | |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

Environmental and real-life conditions

Oscillation/broadband noise

| | |
|------------------------|--|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Spectrum | Long life test category 1, class B, body mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$ |
| ASD level | $0.964 \text{ (m/s}^2\text{)}^2\text{/Hz}$ |
| Acceleration | 0.58g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2008-03 |
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Result | Test passed |

Ambient conditions

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3002609

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| | |
|--|--|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

Standards and regulations

| | |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-3 |
| | IEC 60947-7-3 |

Mounting

| | |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
| | NS 35/15 |

PT 4-L/HESILED 24 (5X20) - Fuse modular terminal block

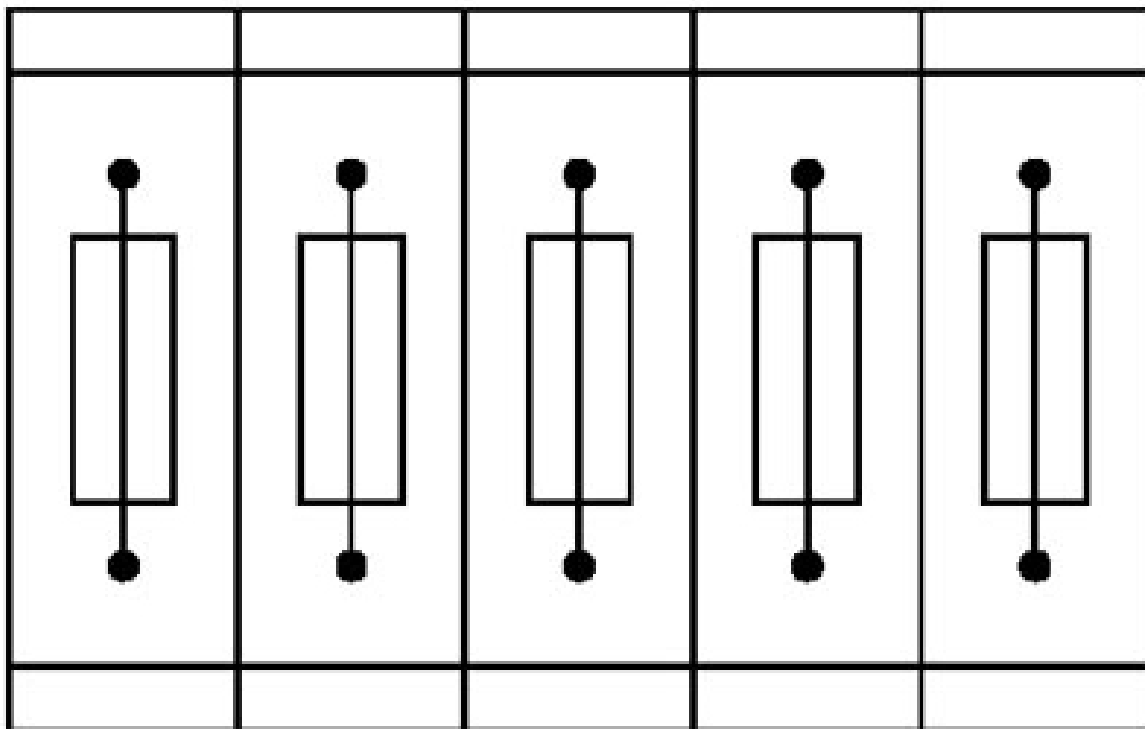


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Drawings

Application drawing



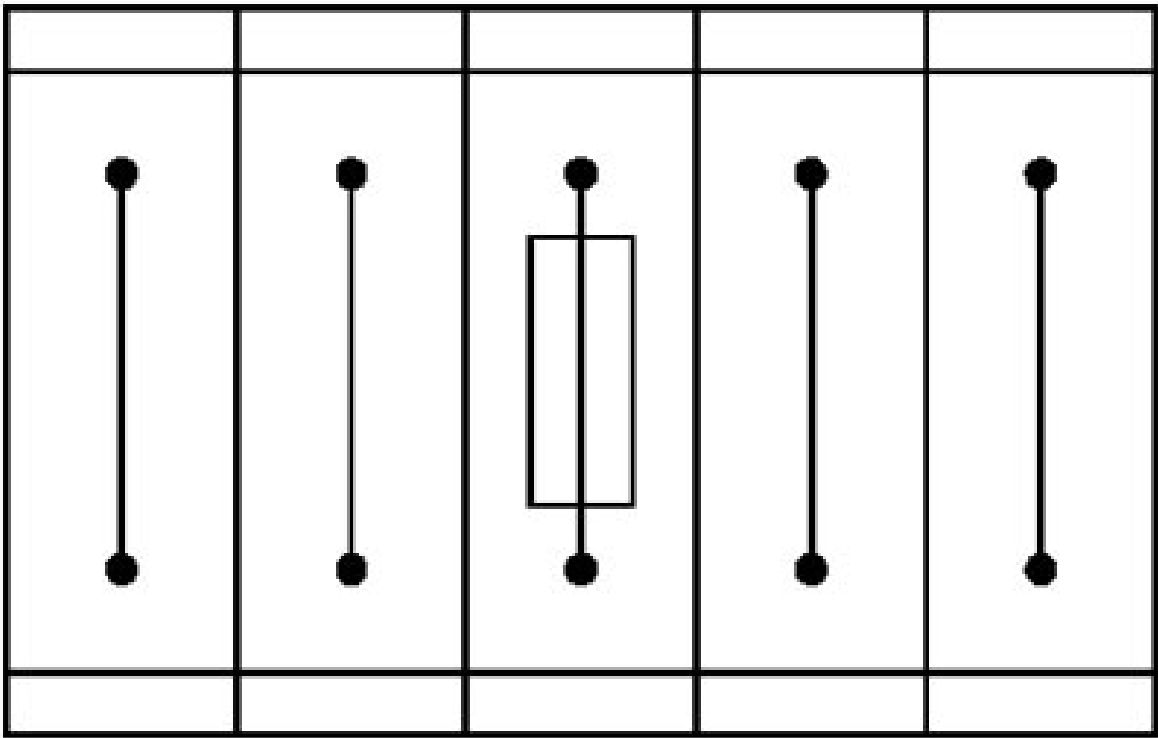
Fuse terminal blocks in interconnected arrangement,
block consisting of 5 fuse terminal blocks

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Application drawing



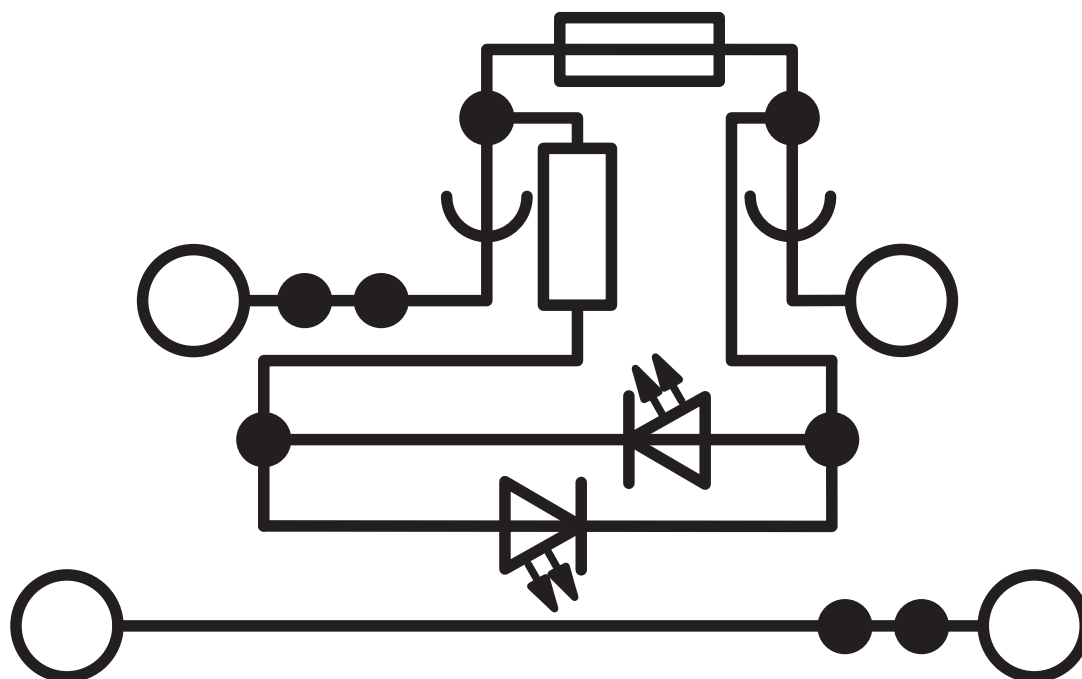
Fuse terminal block in single arrangement,
block consisting of one fuse terminal block and 4 feed-through terminal blocks

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Circuit diagram



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Approvals


To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/3002609>

|  CSA Approval ID: 13631 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | | | | |
| upper level | 300 V | 6.3 A | 24 - 10 | - |
| lower level | 300 V | 20 A | 24 - 10 | - |
| C | | | | |
| upper level | 300 V | 6.3 A | 24 - 10 | - |
| lower level | 300 V | 20 A | 24 - 10 | - |
| D | | | | |
| | 600 V | 5 A | 24 - 10 | - |

|  EAC Approval ID: RU C-DE.BL08.B.00644 | | | | |
|---|--|--|--|--|
|---|--|--|--|--|

|  cULus Recognized Approval ID: E60425 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| B | | | | |
| upper level | 300 V | 6.3 A | 24 - 10 | - |
| lower level | 300 V | 20 A | 24 - 10 | - |
| C | | | | |
| upper level | 300 V | 6.3 A | 24 - 10 | - |
| lower level | 300 V | 20 A | 24 - 10 | - |
| D | | | | |
| | 600 V | 5 A | 24 - 10 | - |

|  cUL Recognized Approval ID: E192998 | | | | |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| Feed-through | 275 V | 20 A | 24 - 10 | 24 - 10 |
| depending on the LED display | 275 V | 6.3 A | 24 - 10 | 24 - 10 |

|  UL Recognized Approval ID: E192998 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |

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| | | | | |
|------------------------------|-------|-------|---------|---|
| keine | | | | |
| Feed-through | 275 V | 20 A | 24 - 10 | - |
| depending on the LED display | 275 V | 6.3 A | 24 - 10 | - |



CCC

Approval ID: 2020322313000626



UKCA-EX

Approval ID: CSAE 21UKEX3605U



IECEx

Approval ID: IECExKIWA17.0025U



ATEX

Approval ID: KIWA17ATEX0045U



EAC Ex

Approval ID: KZ 7500525010101950

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250113 |
| ECLASS-15.0 | 27250113 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000899 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

| | |
|---|--|
| EU RoHS | |
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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