

Membrane Switch Frontpanel Short Stroke 18 mm



Membrane Switch Frontpanel Short Stroke 18 mm  
square  
White, lettered



Membrane Switch Frontpanel Short Stroke 18 mm  
round  
red, lettered



Membrane Switch Frontpanel Short Stroke 18 mm  
round  
green

See below:  
**Approvals and Compliances**

**Description**

- Momentary action switch available in version square or round in different colours
- High lifetime with 5 million actuations
- Front and rear tested to degree of protection IP65 Snap-in type from front side
- Solder terminals

**Weblinks**

[pdf data sheet](#), [html datasheet](#), [General Product Information](#), [CAD-Drawings](#), [Product News](#), [Detailed request for product](#)

**Unique Selling Proposition**

- Unique mechanical switches with tactile feedback
- Small mounting depth
- Various lettering options

**Technical Data**

**Electrical Data**

Impulse Withstand Voltage (ESD)	$\pm 16 \text{ kV}$
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**Contact Material Silver**

Switching Voltage	min. 5 VDC, max. 48 VDC
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Switching current	max. 125 mA
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Rated Switching Capacity	0.72 W
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Lifetime	> 1 million actuations at Rated Switching Capacity
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Contact Resistance	< 50 m $\Omega$
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< 150 m $\Omega$ after lifetime	
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Insulation Resistance	> 100 M $\Omega$
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Duration of Bounce	typ. 0.1 ms
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**Contact Material Gold**

Switching Voltage	min. 50 mVDC, max. 24 VDC
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Switching current	max. 80 mA
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Rated Switching Capacity	0.36 W
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Lifetime	> 1 million actuations at Rated Switching Capacity
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Contact Resistance	< 50 m $\Omega$
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< 150 m $\Omega$ after lifetime	
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Insulation Resistance	> 100 M $\Omega$
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Duration of Bounce	typ. 0.1 ms
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**Mechanical Data**

Actuating Force	$3 \pm 1 \text{ N}$
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Actuating Travel	$0.5 \pm 0.1 \text{ mm}$
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End Stop Strength	> 50 N
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Lifetime	> 1 million actuations
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Mounting screw torque	8 N/cm
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**Climatical Data**

Operating Temperature	-25 °C to 60 °C
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Storage Temperature	-25 °C to 60 °C
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IP-Protection	IP65 (only with accessory kit)
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**Other Data**

Contact Material	Ag / Au
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**Soldering Data**

Solderability	235 °C / 2 sec (IEC 60068-2-20 Test Ta Method 1)
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Resistance to Soldering Heat	260 °C / 5 sec (IEC 60068-2-20 Test Tb Method 1A)
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**Material**

Housing	Thermoplastic (PES)
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Socket	Thermoplastic (PES)
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Bezel	Thermoplastic (PBT)
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Contact	CuZn37 3 $\mu\text{m}$ Ni 2 $\mu\text{m}$ Au; CuZn37 2.5 $\mu\text{m}$ Ag
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Soldering Aid	Tin-plated
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**Approvals and Compliances**

Detailed information on product approvals, code requirements, usage instructions and detailed test conditions can be looked up in [Details about Approvals](#)

SCHURTER products are designed for use in industrial environments. They have approvals from independent testing bodies according to national and international standards. Products with specific characteristics and requirements such as required in the automotive sector according to IATF 16949, medical technology according to ISO 13485 or in the aerospace industry can be offered exclusively with customer-specific, individual agreements by SCHURTER.

**Application standards**

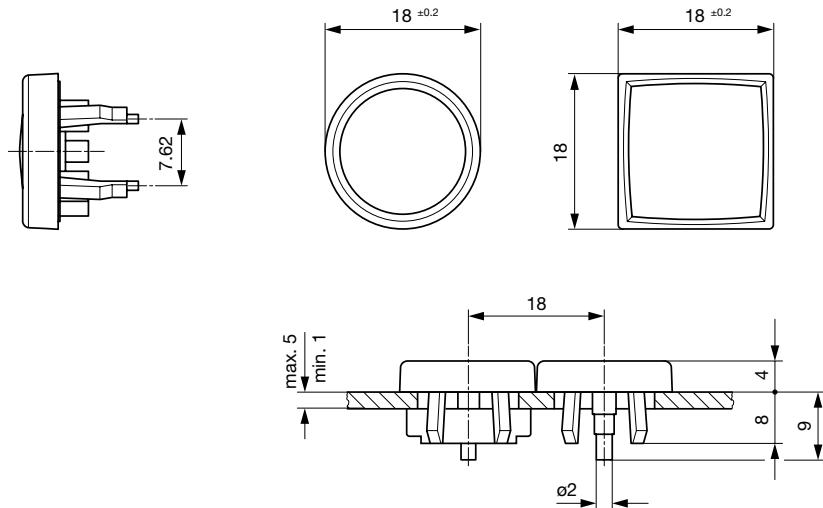
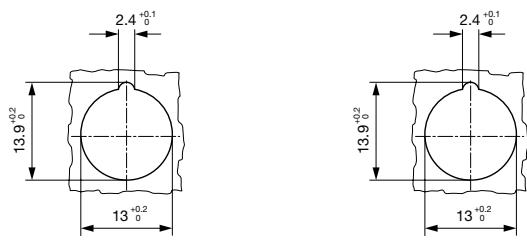
Application standards where the product can be used

Organization	Design	Standard	Description
	Suitable for applications acc.	IEC/UL 62368-1	Audio/video, information and communication technology equipment - Part 1: Safety requirements

**Compliances**

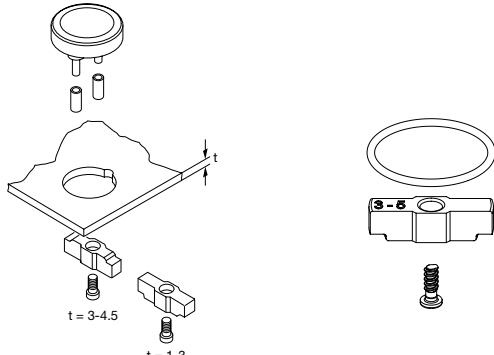
The product complies with following Guide Lines

Identification	Details	Initiator	Description
	RoHS	SCHURTER AG	Directive RoHS 2011/65/EU, Amendment (EU) 2015/863
	China RoHS	SCHURTER AG	The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.
	REACH	SCHURTER AG	On 1 June 2007, Regulation (EC) No 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals 1 (abbreviated as "REACH") entered into force.

**Dimension [mm]****Dimension**

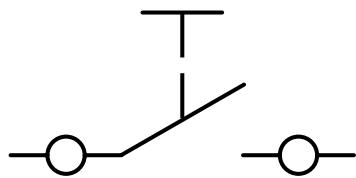
Drilling diagram

Drilling diagram

**Assembly Instructions**

Accessory kit IP65 has to be ordered separately

## Diagrams



## Order Index Lettering

### Laser Marking

001 = <b>A</b>	021 = <b>U</b>	041 = <b>÷</b>	061 = <b>EIN</b>
002 = <b>B</b>	022 = <b>V</b>	042 = <b>*</b>	062 = <b>AUS</b>
003 = <b>C</b>	023 = <b>W</b>	043 = <b>==</b>	063 = <b>AUF</b>
004 = <b>D</b>	024 = <b>X</b>	044 = <b>#</b>	064 = <b>AB</b>
005 = <b>E</b>	025 = <b>Y</b>	045 = <b>↔</b>	065 = <b>ON</b>
006 = <b>F</b>	026 = <b>Z</b>	046 = <b>↓</b>	066 = <b>OFF</b>
007 = <b>G</b>	027 = <b>0</b>	047 = <b>→</b>	067 = <b>UP</b>
008 = <b>H</b>	028 = <b>1</b>	048 = <b>←</b>	068 = <b>DOWN</b>
009 = <b>I</b>	029 = <b>2</b>	049 = <b>↓</b>	069 = <b>HIGH</b>
010 = <b>J</b>	030 = <b>3</b>	050 = <b>↑</b>	070 = <b>LOW</b>
011 = <b>K</b>	031 = <b>4</b>	051 = <b>%</b>	071 = <b>ON/OFF</b>
012 = <b>L</b>	032 = <b>5</b>	052 = <b>√</b>	072 = <b>START</b>
013 = <b>M</b>	033 = <b>6</b>	053 = <b>CTRL</b>	073 = <b>RESET</b>
014 = <b>N</b>	034 = <b>7</b>	054 = <b>RETURN</b>	074 =
015 = <b>O</b>	035 = <b>8</b>	055 = <b>SHIFT</b>	075 =
016 = <b>P</b>	036 = <b>9</b>	056 = <b>LOCK</b>	076 =
017 = <b>Q</b>	037 = <b>+</b>	057 = <b>STOP</b>	077 =
018 = <b>R</b>	038 = <b>-</b>	058 = <b>ENTER</b>	
019 = <b>S</b>	039 = <b>.</b>	059 = <b>BACK</b>	
020 = <b>T</b>	040 = <b>x</b>	060 = <b>LINE</b>	

Please note that the font size depends on the number of characters

## Letter heights and Fonts

- Single characters, Univers 65
- Legends max. 6 characters in line, Univers 65
- Insert label and front foil anthracite, RAO 7016
- Characters and symbols light grey, RAL 7035

## Order number key

M	C	S	18	-	A	-	BK	-	GN	-	038	-	AG	-	S	-	P	-	00	-	S
1	2	3	4	5	6	7	8	9	10												

**Diameter**  **1**

18 mm = 18

**Housing shape**  **2**Round = A  
Square = B**Bezel color**  **3**Black = BK  
White = WT  
Grey = GY  
Yellow = YL  
Green = GN  
Red = RD  
Orange = OR  
Blue = BL**Actuator color**  **4**Black = BK  
White = WT  
Grey = GY  
Yellow = YL  
Green = GN  
Red = RD  
Orange = OR  
Blue = BL  
Anthracite = AN**Marking type**  **5**Customer spec. = CCC  
None = 000  
Standard symbols = 001-077

See in the table "Order Index Lettering"

**Contact material**  **6**Silver = AG  
Gold = AU**Mounting**  **7**Print = P  
Snap-in (1.0-5.0 mm) = S**Terminal switch**  **8**Pin = P  
Solder = S**Accessories**  **9**None = 00  
IP65 kit = IP**Execution Type**  **10**Standard = S  
Customized = C

## Variants

Kontakte	Form	Color Bezel	Color Touchpad	Marking	Bestellnummer
Ag	round	white	white	without Lettering	1241.1104.8098
Ag	square	black	red	without Lettering	1241.1100.7093
Ag	square	black	green	without Lettering	1241.1100.7095
Ag	square	black	black	without Lettering	1241.1100.7097
Ag	round	black	yellow	without Lettering	1241.1104.7091
Ag	round	black	red	without Lettering	1241.1104.7093
Ag	round	black	green	without Lettering	1241.1104.7095
Ag	round	black	grey	without Lettering	1241.1104.7096
Ag	round	black	black	without Lettering	1241.1104.7097
Ag	round with soldering aid	black	black	without Lettering	1241.1113.7097
Accessory kit IP65	-	-	-	-	0098.9201

For Lettering versions see tables "Lettering" and "Order Index Lettering" to determine the symbol

Availability for all products can be searched real-time: <https://www.schurter.com/en/info-center/support-tools/stock-check-distributors>

**Packaging unit** 100 pcs