Frontpanel Switch / Momentary or Latching, Medium Stroke, 10 mm

Frontpanel Switch 10 mm
green
round, illuminated

Frontpanel Switch 10 mm
green
round

Frontpanel Switch 10 mm
green
square

See below:
**Approvals and Compliances**

## Description
- Available in version square or round in different colours
- non-illuminated or illuminated
- 1- or 2-pole Frontpanel and PCB Mounting
- Solder / THT / solder lugs

## Unique Selling Proposition
- Absolute reliability and simple assembly
- Compact design with very small mounting depth
- Good illumination

## Alternative
**Weblinks**
pdf data sheet, html datasheet, General Product Information, CAD-Drawings, Product News, Detailed request for product

## Technical Data

### Electrical Data
| | |
|---|---|
| Switching Voltage | min. 100 mVAC/DC , max. 48 VAC / 48 VDC |
| Switching current | max. 200 mA |
| Lifetime | > 100'000 actuations at Rated Switching Capacity 1.2 W |
| Contact Resistance | < 20 mΩ |
| | < 25 mΩ after lifetime |
| Insulation Resistance | > 10'000 MΩ |
| Duration of Bounce | typ. 0.5 ms |

### Mechanical Data
| | |
|---|---|
| Actuating Force | 1.2 ± 0.6 N |
| Actuating Travel | 1.3 ± 0.5 mm |
| End Actuating Travel | 2.9 ± 0.5 mm |
| End Stop Strength | > 50 N |
| Lifetime | > 100'000 actuations |

### Climatical Data
| | |
|---|---|
| Operating Temperature | illuminated -25 °C to 60 °C |
| | Non-illuminated -25 °C to 85 °C |
| Storage Temperature | illuminated -25 °C to 60 °C |
| | Non-illuminated -25 °C to 85 °C |
| IP-Protection | IP40 |

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

### Material
| | |
|---|---|
| Socket | Thermoplastic (PES) |
| Button | Thermoplastic (PC) |
| Contact | CuZn37 5 µm Ag |
| Contact spring | CuBe37 5 µm Ag |
| Terminals | CuZn37 4 µm SN Pb 40 |

## 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 |
|---|---|---|---|
| IEC | 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

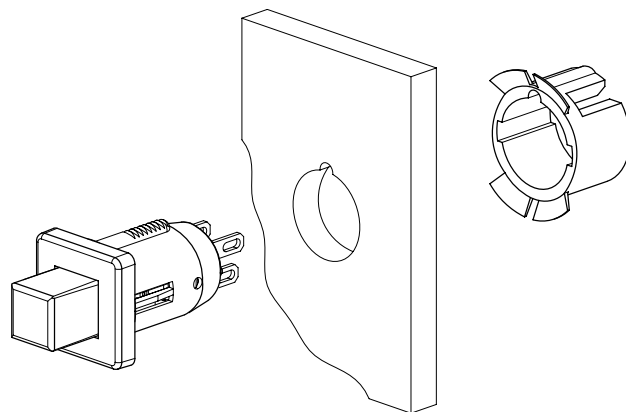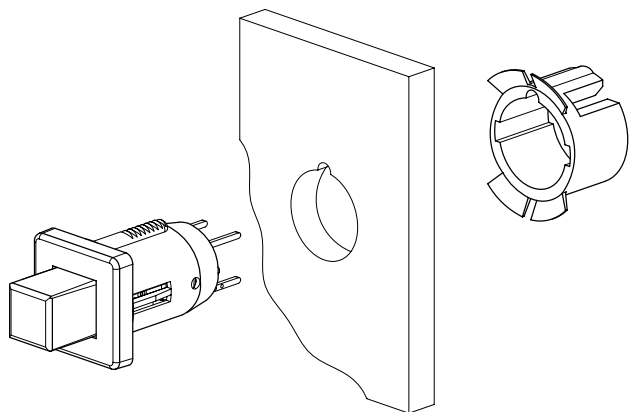| Identification | Details | Initiator | Description |
|---|---|---|---|
| RoHS | RoHS | SCHURTER AG | Directive RoHS 2011/65/EU, Amendment (EU) 2015/863 |
| | China RoHS | SCHURTER AG | The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS. |
| REACH | 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]

Small button
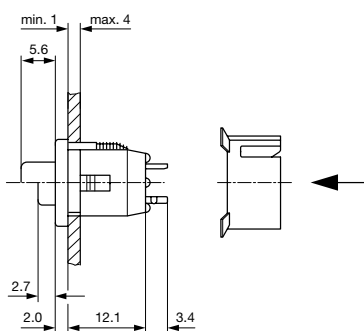
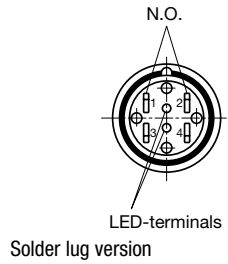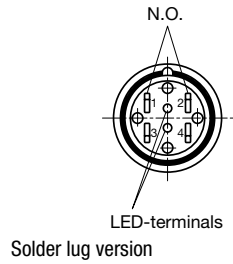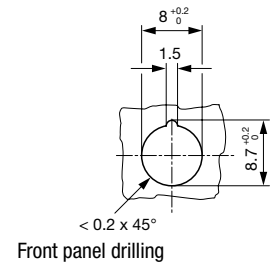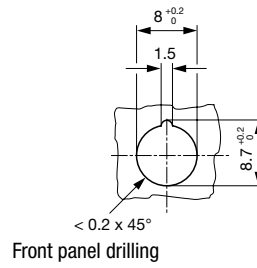Small button with solder lugs
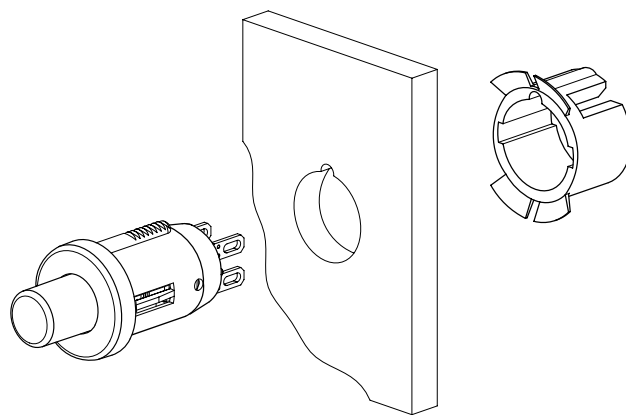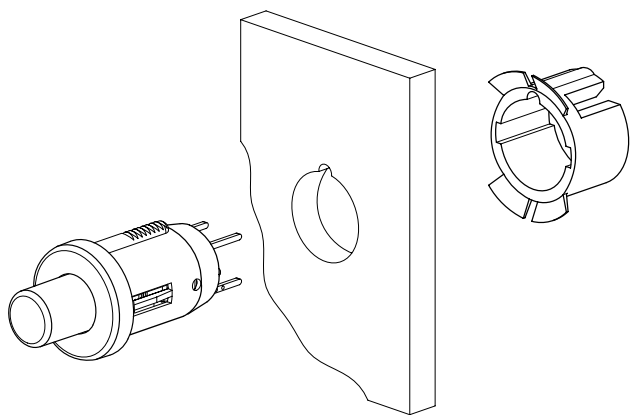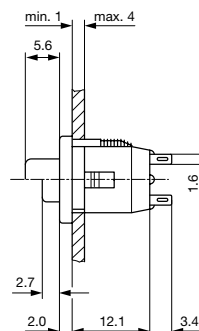






Small button



Small button with solder lugs



Small button



Small button with solder lugs

## Dimension

Drilling diagram / Wiring diagram

Drilling diagram / Wiring diagram

Front panel drilling

Front panel drilling

Solder lug version
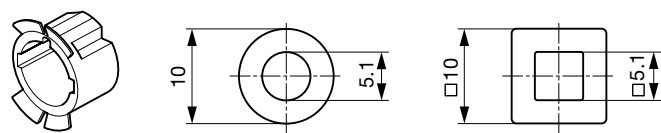
Solder lug version
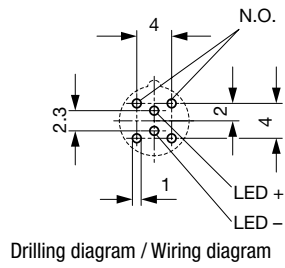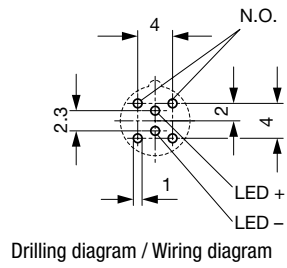
## Assembly Instructions

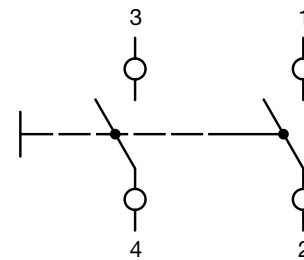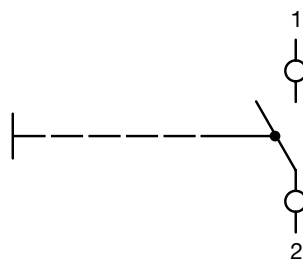Securing clip, round bezel button, square betel button

Necessary for front panel mounting

## Diagrams

NO 1 pole

NO 2 pole

## All Variants

| Type | Number of Poles | Terminal | Form | Illumination | Color Button | Color LED | Color Bezel | Securing clip [1] | Bestellnummer | |
|------|-----------------|----------|------|--------------|--------------|-----------|-------------|-------------------|---------------|---|
| Momentary | 1-pole | Solder lugs | round | | red | - | black | ● | 0041.8841.3107 | ▮ |
| Momentary | 1-pole | Solder lugs | round | | black | - | black | ● | 0041.8841.7107 | ▮ |
| Latching | 2-pole | Solder lugs | round | ● | red | red | black | ● | 0041.8857.3117 | |
| Latching | 2-pole | Solder lugs | round | ● | green | green | black | ● | 0041.8857.5127 | ▮ |
| Dimentary | 1-pole | Solder / THT | round | | red | - | black | | 0041.9141.3107 | ▮ |
| Momentary | 1-pole | Solder / THT | round | ● | red | red | black | | 0041.9146.3117 | |
| Momentary | 1-pole | Solder / THT | round | ● | green | green | black | | 0041.9146.5127 | ▮ |

| Type | Number of Poles | Terminal | Form | Illumination | Color Button | Color LED | Color Bezel | Securing clip [1] | Bestellnummer | |
|---|---|---|---|---|---|---|---|---|---|---|
| Latching | 1-pole | Solder / THT | round | ● | red | red | black | | 0041.9156.3117 | ▮ |
| Latching | 1-pole | Solder / THT | round | ● | green | green | black | | 0041.9156.5127 | ▮ |
| Securing clip | - | - | - | | - | - | - | | 0850.9242 | |

With the illuminated version, the small button is transparent

[1]Securing clip is included for solder lug version

▮ Most Popular.

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 |
|---|---|

28.03.2024