Momentary Action Switch
https://www.schurter.com /PG09

Print and SMD Switch Short Stroke 11.4 mm

SMS with Gullwing lead, IP40

SMS with adapter and elongated button, J-lead

Description
- Switches are possible with different heights
- High-quality gold and silver contacts
- Solder terminals

Unique Selling Proposition
- Reliable tactile feedback on input
- Simple assembly
- Long life time

Technical Data

Electrical Data
- Switching Voltage: 30 VAC / 42 VDC
- Switching Current: 50 mA
- Rated Switching Capacity: 0.12 W
- Lifetime: > 1 million actuations at Rated Switching Capacity
- Contact Resistance: < 50 mΩ
- Insulation Resistance: > 100 MΩ
- Duration of Bounce: typ. 0.15 ms

Mechanical Data
- Actuating Force: IP40: 1.8 ± 0.4 N, IP67: 2.2 ± 0.4 N
- Actuating Travel: 0.35 ± 0.1 mm
- End Stop Strength: < 100 N
- Lifetime: > 1 million actuations

Climatical Data
- Operating Temperature: -40 °C to 85 °C
- Storage Temperature: -40 °C to 85 °C
- IP-Protection: IP40 and IP67

Soldering Data
- Soldering Methods: Reflow
- Solderability: 245 °C / 5 sec (IEC 60068-2-58 Test Td)
- Resistance to Soldering Heat: 260 °C / 10 sec (IEC 60068-2-58 Test Td)

Material
- Sealing membrane: IP67 VMQ
- Contact Material: Gold CuZn37 1.5 μm Ni 0.5 μm Au
- Terminals: CuZn37 SnNi
- Socket: Thermoplastic (PA 4.6)
- Actuator: PA4
- Cover of Actuator: X 12 CrNi 17 7
- Elongated Button: Thermoplastic (PC)

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

<table>
<thead>
<tr>
<th>Organization</th>
<th>Design</th>
<th>Standard</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IEC</td>
<td>Designed for applications acc.</td>
<td>IEC/UL 60950</td>
<td>IEC 60950-1 includes the basic requirements for the safety of information technology equipment.</td>
</tr>
</tbody>
</table>
Compliances

The product complies with following Guide Lines

<table>
<thead>
<tr>
<th>Identification</th>
<th>Details</th>
<th>Initiator</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RoHS</td>
<td>SCHURTER AG</td>
<td>Directive RoHS 2011/65/EU, Amendment (EU) 2015/838</td>
<td></td>
</tr>
<tr>
<td>China RoHS</td>
<td>SCHURTER AG</td>
<td>The law SJ / T 11363-2006 (China RoHS) has been in force since 1 March 2007. It is similar to the EU directive RoHS.</td>
<td></td>
</tr>
</tbody>
</table>

Dimension [mm]

SMS Gullwing Base module

SMS J-lead Base module

SMS Gullwing Variable height

SMS J-lead Variable height
Momentary Action Switch

https://www.schurter.com /PG09

PCP Lead

Gullwing Lead

J-Lead

SMS Gullwing with elongated button  SMS J lead with elonged button

Diagrams

Circuit Diagram SMS/PMS

All Variants

<table>
<thead>
<tr>
<th>IP Protection Class</th>
<th>Terminal</th>
<th>Type</th>
<th>Overall height / Color</th>
<th>Order Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IP40</td>
<td>Gullwing</td>
<td>Short actuator</td>
<td>-</td>
<td>1241.1609.11</td>
</tr>
<tr>
<td>IP40</td>
<td>Gullwing</td>
<td>Short actuator</td>
<td>-</td>
<td>1241.1609.23</td>
</tr>
<tr>
<td>IP40</td>
<td>Gullwing</td>
<td>Long actuator</td>
<td>-</td>
<td>1241.1612.11</td>
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<tr>
<td>IP40</td>
<td>Gullwing</td>
<td>Long actuator</td>
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<td>1241.1612.23</td>
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<tr>
<td>IP40</td>
<td>J-Lead</td>
<td>Short actuator</td>
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<td>1241.1601.11</td>
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<tr>
<td>IP40</td>
<td>J-Lead</td>
<td>Short actuator</td>
<td>-</td>
<td>1241.1601.23</td>
</tr>
</tbody>
</table>

Switches  | SCHURTER ELECTRONIC COMPONENTS  | 3  |
### IP Protection Class Front Side | Terminal Type | Overall height / Color | Order Number
--- | --- | --- | ---
IP40 | J-Lead Long actuator | - | 1241.1613.11
IP40 | J-Lead Long actuator | - | 1241.1613.23
IP67 | Gullwing Short actuator | - | 1241.1606.11
IP67 | Gullwing Short actuator | - | 1241.1606.23
IP67 | Gullwing Long actuator | - | 1241.1618.11
IP67 | Gullwing Long actuator | - | 1241.1618.23
IP67 | J-Lead Short actuator | - | 1241.1607.11
IP67 | J-Lead Short actuator | - | 1241.1607.23
IP67 | J-Lead Long actuator | - | 1241.1619.11
IP67 | J-Lead Long actuator | - | 1241.1619.23
- | - | Elongated button 8.50 mm / yellow | 0862.8101
- | - | Elongated button 9.25 mm / orange | 0862.8102
- | - | Elongated button 10.00 mm / red | 0862.8103
- | - | Elongated button 10.75 mm / blue | 0862.8104
- | - | Elongated button 11.50 mm / green | 0862.8105
- | - | Elongated button 12.25 mm / grey | 0862.8106
- | - | Elongated button 13.00 mm / black | 0862.8107
- | - | Elongated button 13.75 mm / white | 0862.8108
- | - | Second elongated button | 0862.8226

## Most Popular.

Availability for all products can be searched real-time: [https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER](https://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER)

Additional elongated button for long actuators must be ordered separately.

From 14.50 mm an additional (second) elongated button for intermediate sizes (h + 6 mm) is required. This must be ordered separately.

### Packaging unit
- .xx = .11 loose in boxes (100 pcs.)
- .xx = .23 Blister Tape 33 cm Reel for short actuator (700 pcs.)
- .xx = .23 Blister Tape 33 cm Reel for long actuator (450 pcs.)

The specifications, descriptions and illustrations indicated in this document are based on current information. All content is subject to modifications and amendments. Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability and test each product selected for their own applications.