1) Sensing surface, 2) ≤ core Ø

**Basic features**

**Approval/Conformity**
- CE
- EAC
- WEEE

**Basic standard**
- IEC 60947-5-2

**Display/Operation**
- Function indicator: yes
- Power indicator: no

**Electrical connection**
- Connection: M12x1-Male, 4-pin, A-coded
- Polarity reversal protected: yes
- Protection against device mix-ups: no
- Short-circuit protection: no

**Electrical data**

- Load capacitance max. at Ue: 1 µF
- Min. operating current Im: 0 mA
- No-load current Io max., damped: 28 mA
- No-load current Io max., undamped: 28 mA
- Operating voltage Ub: 10...32 VDC
- Rated insulation voltage Ui: 75 V DC
- Rated operating current Ie: 130 mA
- Rated operating voltage Ue DC: 24 V
- Rated short circuit current: 100 A
- Ripple max. (% of Ue): 15 %
- Switching frequency: 500 Hz
- Utilization category: DC -13
- Voltage drop static max.: 2.8 V

**Environmental conditions**

- Ambient temperature: -25...70 °C
- Contamination scale: 3
- EN 60068-2-27, Shock: Half-sinus, 30 gn, 11 ms
- EN 60068-2-6, Vibration: 55 Hz, amplitude 1 mm, 3x30 min
- Protection degree: IP67

**Material**

- Housing material: Brass
- Material sensing surface: PBT
- Surface protection: nickel plated
### Mechanical data

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Ø 18 x 90.5 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>for flush mounting</td>
</tr>
<tr>
<td>Size</td>
<td>M18x1</td>
</tr>
<tr>
<td>Tightening torque</td>
<td>40 Nm</td>
</tr>
</tbody>
</table>

### Output/Interface

| Switching output | PNP/NPN normally open/normally closed (NO/NC) |

### Remarks

Recommendation: After a short circuit check the device for proper function.

### Connector Drawings

![Connector Diagram](image)

### Wiring Diagrams

![Wiring Diagram](image)

1) For SCP see electrical data