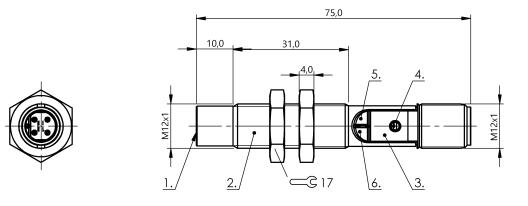
Capacitive Sensors BCS M12B4E2-PSC80H-S04K Order Code: BCS00P4





1) Sensing surface, 2) Housing, 3) Cover, 4) Potentiometer, 5) LED Power, 6) LED function indicator

Basic features

| Approval/Conformity | CE |
|---------------------|-------------------------------|
| | cULus |
| | EAC |
| | WEEE |
| Basic standard | IEC 60947-5-2 |
| Scope of delivery | Nut (2x) |
| Sensitivity | Switching distance adjustable |
| Series | M12 |
| Trademark | Global |

Display/Operation

| Function indicator | yes |
|--------------------|-----|
| Power indicator | yes |

Electrical connection

| Connection | M12x1-Male, 3-pin, A-coded |
|-----------------------------------|----------------------------|
| Polarity reversal protected | yes |
| Protection against device mix-ups | no |
| Short-circuit protection | yes |

Electrical data

| No-load current lo max. at Ue | 15 mA |
|-------------------------------|----------|
| Operating voltage Ub | 1030 VDC |
| Rated insulation voltage Ui | 75 V DC |
| Rated operating current le | 100 mA |
| Rated operating voltage Ue DC | 24 V |
| Ready delay tv max. | 300 ms |
| Ripple max. (% of Ue) | 10 % |
| Switching frequency | 100 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 1.5 V |

Environmental conditions

| Ambient temperature | -2585 °C |
|---------------------|------------------------|
| Contamination scale | 2 |
| IP rating | IP67 |
| Functional safety | |
| MTTF (40 °C) | 226 a |
| Interface | |
| Switching output | PNP normally open (NO) |
| Material | |
| Cover material | PBT |
| | PA |
| Housing material | 1.4305 stainless steel |
| 5 | |

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Mechanical data

| | | - | - | |
|-------------------|--------------|----------------------------------|----------------|--|
| Dimension | Ø 12 x 75 mm | Hysteresis H max. (% of Sr) | 15.0 % | |
| Installation | non-flush | Measuring range | 18 mm | |
| Size | M12x1 | Rated operating distance Sn | 8 mm | |
| Thread (A) | M12x1 | Repeat accuracy max. (% of Sr) | 2.0 % | |
| Tightening torque | 8 Nm | Temperature drift max. (% of Sr) | 20 % [-555 °C] | |
| | | | | |

Range/Distance

Remarks

The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything. If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output. For more information about MTTF and B10d see MTTF / B10d Certificate

Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings



Wiring Diagrams

