



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



Basic features

| | |
|----------------------------|-------------------------------|
| Approval/Conformity | CE UKCA cULus WEEE |
| Basic standard | IEC 60947-5-2 |
| Scope of delivery | Nut (2x) |
| Sensitivity | Switching distance adjustable |
| Series | M30 |
| Trademark | Global |

Display/Operation

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

Electrical connection

| | |
|------------------------------------------|----------------------|
| Cable diameter D | 4.60 mm |
| Cable length L | 2 m |
| Conductor cross-section | 0.34 mm ² |
| Number of conductors | 3 |
| Polarity reversal protected | yes |
| Protection against device mix-ups | no |
| Short-circuit protection | yes |

Electrical data

| | |
|------------------------------------------------------------|-------------|
| No-load current I_o max. at U_e | 20 mA |
| Operating voltage U_b | 10...30 VDC |
| Protection class | II |
| Rated insulation voltage U_i | 75 V DC |
| Rated operating current I_e | 100 mA |
| Rated operating voltage U_e DC | 24 V |
| Ready delay t_v max. | 300 ms |
| Ripple max. (% of U_e) | 10 % |
| Switching frequency | 100 Hz |
| Utilization category | DC -13 |
| Voltage drop static max. | 1.5 V |

Environmental conditions

| | |
|----------------------------|-------------|
| Ambient temperature | -25...85 °C |
| Contamination scale | 1 |
| IP rating | IP67 |

Functional safety

| | |
|---------------------|-------|
| MTTF (40 °C) | 343 a |
|---------------------|-------|

Interface

| | |
|-------------------------|--------------------------|
| Switching output | PNP normally closed (NC) |
|-------------------------|--------------------------|

Capacitive Sensors
BCS M30BBI1-POC15D-EP02
Order Code: BCS00NN



Material

| | |
|--------------------------|-----|
| Cover material | PBT |
| | PA |
| Housing material | PBT |
| Material jacket | PUR |
| Material sensing surface | PBT |

Range/Distance

| | |
|----------------------------------|-------------------|
| Hysteresis H max. (% of Sr) | 15.0 % |
| Measuring range | 2...15 mm |
| Rated operating distance Sn | 15 mm |
| Repeat accuracy max. (% of Sr) | 2.0 % |
| Temperature drift max. (% of Sr) | 20 % [-5...55 °C] |

Mechanical data

| | |
|-------------------|--------------------|
| Dimension | Ø 30 x 66.5 mm |
| Installation | for flush mounting |
| Size | M30x1.5 |
| Thread (A) | M30x1.5 |
| Tightening torque | 6 Nm |

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.

Wiring Diagrams

