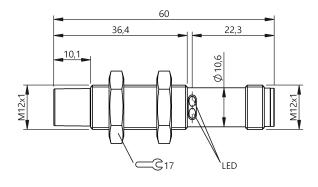
# **Capacitive Sensors** BCS M12K4D2-GOM80G-S04G **Order Code: BCS017A**









### **Basic features**

| Approval/Conformity | CE                           |
|---------------------|------------------------------|
|                     | UKCA                         |
|                     | cULus                        |
|                     | WEEE                         |
| Basic standard      | IEC 60947-5-2                |
| Scope of delivery   | 2x nut M12x1                 |
|                     | Installation guide           |
| Sensitivity         | Switching distance teachable |
| Series              | M12                          |

## **Display/Operation**

Function indicator Power indicator

### **Electrical connection**

| Connection                        | M12x1-Male, 4-pin, A-coded |
|-----------------------------------|----------------------------|
| Polarity reversal protected       | yes                        |
| Protection against device mix-ups | yes                        |
| Short-circuit protection          | yes                        |

yes

yes

### **Electrical data**

| Load capacitance max. at Ue   | 220 nE   |
|-------------------------------|----------|
| Loau capacitance max. at De   | 220 HF   |
| No-load current lo max. at Ue | 15 mA    |
| Operating voltage Ub          | 1230 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.           | 50 ms    |
| Ripple max. (% of Ue)         | 10 %     |
| Switching frequency           | 100 Hz   |
| Utilization category          | DC -13   |
| Voltage drop static max.      | 2 V      |

### **Environmental conditions**

| NP normally closed |
|--------------------|
| normally open (NO) |
|                    |
|                    |
|                    |
|                    |
| less steel         |
|                    |

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### **Mechanical data**

| Range/Distance |  |
|----------------|--|
|----------------|--|

| Dimension         | Ø 12 x 60 mm | Hysteresis H max. (% of Sr) 15 %      |  |
|-------------------|--------------|---------------------------------------|--|
| Installation      | non-flush    | Measuring range 0.58 mm               |  |
| Size              | M12x1        | Rated operating distance Sn 8 mm      |  |
| Thread (A)        | M12x1        | Repeat accuracy max. (% of Sr) 2 %    |  |
| Tightening torque | 8 Nm         | Temperature drift max. (% of Sr) 20 % |  |
|                   |              |                                       |  |

## Remarks

For full calibration connect input DI to L+ for 2...7 seconds. For empty calibration connect to L+ for 7..12 seconds. Input DI can be used for teaching the switching point. In normal operation input DI should be connected continuously to L-.

The push-pull switching outputs must not be connected in parallel.

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

