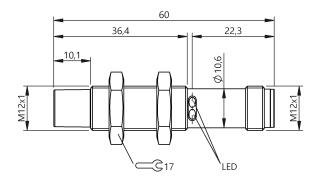
# **Capacitive Sensors** BCS M12K4D2-GSM80G-S04G **Order Code: BCS0179**









### **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 nF
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**

Ambient temperature	-1080 °C
Contamination scale	2
IP rating	IP67
Functional safety	
MTTF (40 °C)	96.6 a
Interface	
Switching output	Push-pull PNP normally open (NO) / NPN normally closed (NC)
Material	
Cover material	PA 12
Housing material	1.4404 stainless steel
Material sensing surface	PEEK

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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.

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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