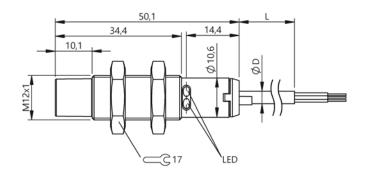
Capacitive Sensors

BCS M12K4G1-GOM80G-EP02

Order Code: BCS0178













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Rac	210	TASTI	ILDC

Basic reatures	
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	yes
Electrical connection	

Cable diameter D	3.4 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	ves

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
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Interface

Switching output	Push-pull PNP normally closed
	(NC) / NPN normally open (NO)

Material

Cover material	PA 12
Housing material	1.4404 stainless steel
Material jacket	PUR
Material sensing surface	PEEK

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Mechanical data

 Dimension
 Ø 12 x 50 mm

 Installation
 non-flush

 Size
 M12x1

 Thread (A)
 M12x1

 Tightening torque
 8 Nm

Range/Distance

Hysteresis H max. (% of Sr) 15 %

Measuring range 0.5...8 mm

Rated operating distance Sn 8 mm

Repeat accuracy max. (% of Sr) 2 %

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.

Wiring Diagrams

