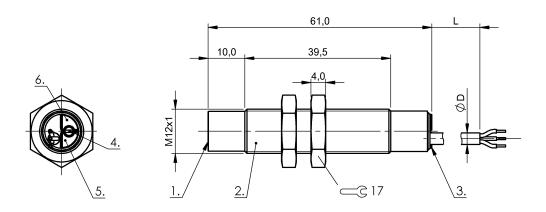
# BCS M12BBG1-POC80H-EP02

Order Code: BCS00R1





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











Approval/Conformity	CE UKCA
	cULus
	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	
Cable diameter D	3.50 mm
Cable length L	2 m
Conductor cross-section	0.14 mm <sup>2</sup>
Number of conductors	3
Polarity reversal protected	yes
•	

yes

### **Electrical data**

No-load current lo max. at Ue	20 mA
Operating voltage Ub	1030 VD0
Protection class	II
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	100 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	
Functional safety MTTF (40 °C)	

## Interface

Switching output PNP normally closed (NC)

Protection against device mix-ups

**Short-circuit protection** 

#### **Capacitive Sensors**

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#### Material

Cover materialPAHousing materialPBTMaterial jacketPURMaterial sensing surfacePBT

#### Mechanical data

 Dimension
 Ø 12 x 61 mm

 Installation
 non-flush

 Size
 M12x1

 Thread (A)
 M12x1

 Tightening torque
 1 Nm

#### Range/Distance

Hysteresis H max. (% of Sr)

Measuring range

Rated operating distance Sn

Repeat accuracy max. (% of Sr)

Temperature drift max. (% of Sr)

15.0 %

8 mm

2.0 %

15.0 %

20 % [-5...55 °C]

### Remarks

Full accuracy after warmup phase

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**

