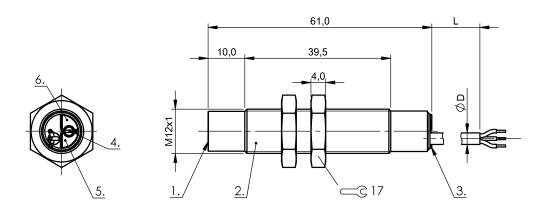
# BCS M12BBG1-PSC80H-EP02

Order Code: BCS00R0





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











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Basic leatures		
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	
Protection against device mix-ups	no	
Short-circuit protection	yes	

# **Electrical data**

No-load current lo max. at Ue	20 mA
Operating voltage Ub	1030 VDC
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		
MTTF (40 °C)	226 a	
Interface		

PNP normally open (NO)

Switching output

# **Capacitive Sensors**

# BCS M12BBG1-PSC80H-EP02 Order Code: BCS00R0



#### 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) 15.0 %

Measuring range 1...8 mm

Rated operating distance Sn 8 mm

Repeat accuracy max. (% of Sr) 2.0 %

Temperature drift max. (% of Sr) 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**

