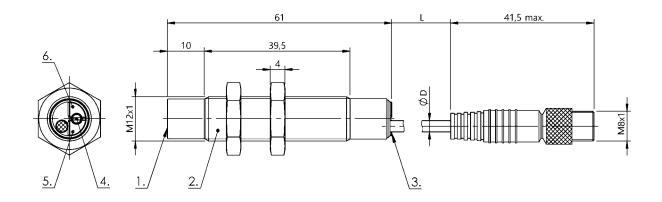
# BCS M12TTG1-POM80G-EP00,5-GS49

Order Code: BCS0110





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









Approval/Conformity	CE UKCA WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Nut (2x) Screwdriver Short guide
Sensitivity	Switching distance adjustable
Series	M12

### Display/Operation

Function indicator	yes
Power indicator	no

### Electrical connection

Cable diameter D	2.90 mm
Cable length L	0.5 m
Connection	M8x1-Male, 3-pin
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

No-load current lo max. at Ue	15.0 mA
Operating voltage Ub	1235 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Switching frequency	100 Hz
Utilization category	DC -13
Voltage drop static max.	1.3 V

### **Environmental conditions**

Ambient temperature	-3070 °C
Contamination scale	2
IP rating	IP67

### Functional safety

MTTF (40 °C)	450 a	

## Interface

Switching output

Material			

### Material

Cover material	POM
Housing material	PTFE
Material jacket	PUR
Material sensing surface	PTFE

PNP normally closed (NC)

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#### Mechanical data

 Dimension
 Ø 12 x 50 mm

 Installation
 non-flush

 Size
 M12x1

 Thread (A)
 M12x1

 Tightening torque
 0.5 Nm

### Range/Distance

 Hysteresis H max. (% of Sr)
 20.0 %

 Measuring range
 1...8 mm

 Rated operating distance Sn
 8 mm

 Repeat accuracy max. (% of Sr)
 2.0 %

 Temperature drift max. (% of Sr)
 15 % [-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.

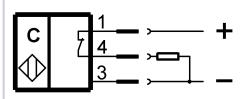
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

### **Connector Drawings**



# Wiring Diagrams



### Installation remarks

