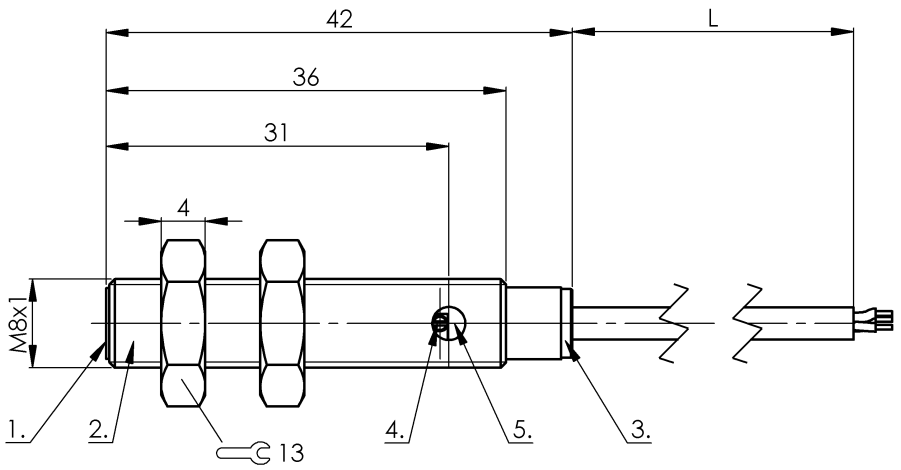
Capacitive Sensors

BCS M08T4E1-POM15C-EP02
Order Code: BCS0027



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

Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Screwdriver Nut (2x) Short guide
Sensitivity	Switching distance adjustable
Series	M08

Display/Operation

Function indicator	yes

Electrical connection

Cable length L	2 m
Conductor cross-section	0.14 mm²
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

No-load current Io max. at Ue	10 mA
Operating voltage Ub	11...30 VDC
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	50 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.	2 V

Environmental conditions

Ambient temperature	-10...70 °C
Contamination scale	1
IP rating	IP65

Functional safety

MTTF (40 °C)	444 a

Interface

Switching output	PNP normally closed (NC)

Material

Cover material	POM
Housing material	1.4301 stainless steel
Material jacket	PUR
Material sensing surface	PTFE

Capacitive Sensors

BCS M08T4E1-POM15C-EP02
Order Code: BCS0027

Mechanical data

Dimension	Ø 8 x 42 mm
Installation	for flush mounting
Size	M8x1
Thread (A)	M8x1
Tightening torque	6 Nm

Range/Distance

Hysteresis H max. (% of Sr)	15.0 %
Measuring range	0.1...1.5 mm
Rated operating distance Sn	1.5 mm
Repeat accuracy max. (% of Sr)	2.0 %
Temperature drift max. (% of Sr)	15 %

Remarks

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