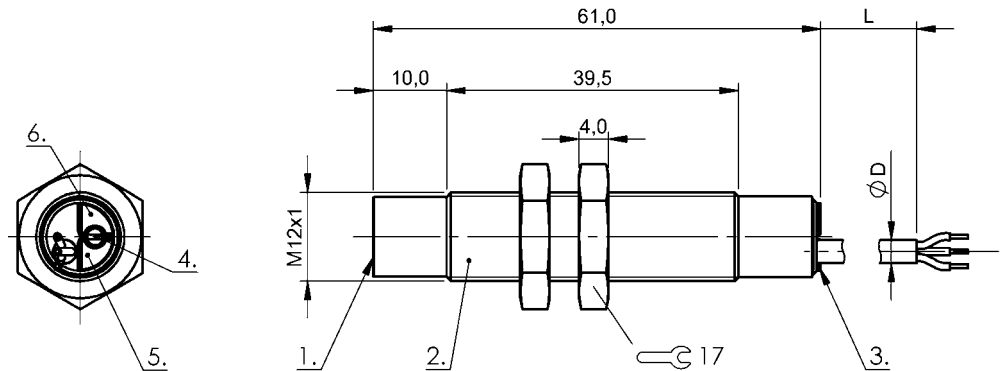


Capacitive Sensors
BCS M12B4G1-PSC80H-EP02
Order Code: BCS00PC



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



Basic features

Sensitivity	Switching distance adjustable
Series	M12
Trademark	Global

Environmental conditions

Ambient temperature	-25...85 °C
Contamination scale	2
IP rating	IP67

Display/Operation

Power indicator	yes
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Functional safety

MTTF (40 °C)	226 a
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Electrical connection

Cable diameter D	3.50 mm
Cable length L	2 m
Conductor cross-section	0.14 mm ²
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Interface

Switching output	PNP normally open (NO)
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Material

Cover material	PA
Housing material	1.4305 stainless steel
Material jacket	PUR
Material sensing surface	PBT

Electrical data

No-load current I ₀ max. at U _e	20 mA
Operating voltage U _b	10...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	100 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	100 ms
Ripple max. (% of U _e)	10 %
Switching frequency	100 Hz
Voltage drop static max.	1.5 V

Mechanical data

Dimension	Ø 12 x 61 mm
Installation	non-flush
Size	M12x1
Thread (A)	M12x1

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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]

Wiring Diagrams

