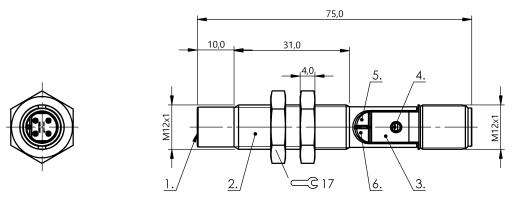
Capacitive Sensors BCS M12B4E2-PSC80H-S04K Order Code: BCS00P4





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



Basic features

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

Connection	M12x1-Male, 3-pin, A-coded
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
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Ready delay tv max.	300 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	
Switching output	PNP normally open (NO)
Material	
Cover material	PBT
	PA
Housing material	1.4305 stainless steel

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Mechanical data

		-	-	
Dimension	Ø 12 x 75 mm	Hysteresis H max. (% of Sr)	15.0 %	
Installation	non-flush	Measuring range	18 mm	
Size	M12x1	Rated operating distance Sn	8 mm	
Thread (A)	M12x1	Repeat accuracy max. (% of Sr)	2.0 %	
Tightening torque	8 Nm	Temperature drift max. (% of Sr)	20 % [-555 °C]	

Range/Distance

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.

Connector Drawings



Wiring Diagrams

