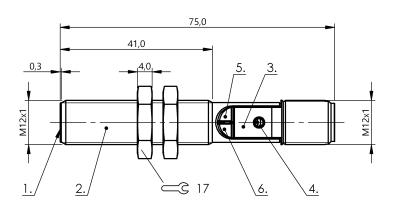
BCS M12B4G2-PSC40D-S04K

Order Code: BCS00P0







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



Basic	features
-------	----------

Basic features	
Additional features	weld-immune (magnetic field 100kA/m)
Approval/Conformity	CE UKCA cULus EAC 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	ves

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	1
IP rating	IP67

Functional safety

MTTF (40 °C)	343 a
--------------	-------

Interface

Switching output	PNP normally open (NO)

Material

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

Capacitive Sensors

BCS M12B4G2-PSC40D-S04K Order Code: BCS00P0



Mechanical data

DimensionØ 12 x 75 mmInstallationfor flush mountingSizeM12x1Thread (A)M12x1

Range/Distance

 Hysteresis H max. (% of Sr)
 15 %

 Measuring range
 1...4 mm

 Repeat accuracy max. (% of Sr)
 2 %

 Temperature drift max. (% of Sr)
 20 % [-5...55 °C]

Remarks

Tightening torque

The potentiometer does not have a fixed stop, but can be turned endlessly without destroying anything.

8 Nm

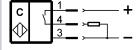
If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output. For more information about MTTF and B10d see MTTF / B10d Certificate

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



2/2