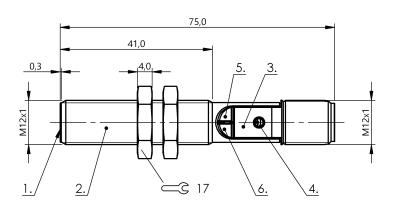
# BCS M12B4G2-PSC40D-S04K

Order Code: BCS00P0







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







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Additional features	weld-immune (magnetic field 100kA/m)
Approval/Conformity	CE 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	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	18 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
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#### Interface

Switching output	PNP normally open (NO)

#### Material

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

#### **Capacitive Sensors**

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#### Mechanical data

DimensionØ 12 x 75 mmInstallationfor flush mountingSizeM12x1Thread (A)M12x1Tightening torque8 Nm

#### 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

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**

