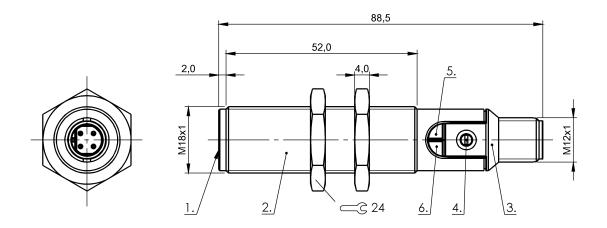
# BCS M18BBI3-POC80D-S04K-010

**Order Code: BCS00T3** 





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











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

Short-circuit protection

Approval/Conformity	CE cULus EAC WEEE
Basic standard	IEC 60947-5-2
Scope of delivery	Nut (2x)
Sensitivity	Switching distance adjustable
Series	M18
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

yes

#### **Electrical data**

No-load current lo max. at Ue	18 mA
Operating voltage Ub	1030 VD0
Protection class	II
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
Storage temperature	-2585 °C

### **Functional safety**

MTTF (40 °C)	343 a

#### Interface

Subject to change without notice: 214624

Switching output PNP normally closed (NC)

### **Capacitive Sensors**

# BCS M18BBI3-POC80D-S04K-010 Order Code: BCS00T3



#### Material

 Cover material
 PBT

 PA
 PBT

 Housing material
 PBT

Material sensing surface PBT

#### Mechanical data

 Size
 M18x1

 Thread (A)
 M18x1

 Tightening torque
 2 Nm

#### 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]

#### 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**

