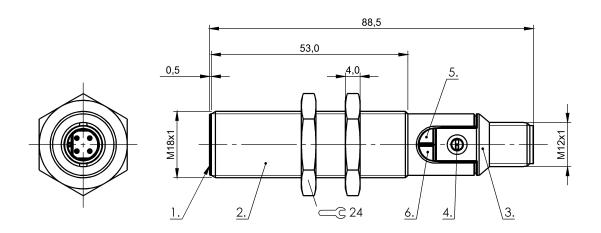
# BCS M18B4I3-PSC80D-S04K

Order Code: BCS00MF





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









#### **Basic features**

Additional features  weld-immune (magnetic field 100kA/m)  Approval/Conformity  CE  UKCA  cULus  WEEE  Basic standard  IEC 60947-5-2  Scope of delivery  Nut (2x)  Sensitivity  Switching distance adjustable  Series  M18  Trademark  Global		
UKCA cULus WEEE  Basic standard IEC 60947-5-2  Scope of delivery Nut (2x)  Sensitivity Switching distance adjustable Series M18	Additional features	, ,
Scope of delivery  Sensitivity  Series  Nut (2x)  Switching distance adjustable  M18	Approval/Conformity	UKCA cULus
Sensitivity Switching distance adjustable Series M18	Basic standard	IEC 60947-5-2
Series M18	Scope of delivery	Nut (2x)
	Sensitivity	Switching distance adjustable
Trademark Global	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
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
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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**

# BCS M18B4I3-PSC80D-S04K Order Code: BCS00MF



#### Mechanical data

Dimension Ø 18 x 88.5 mm Installation for flush mounting Size M18x1 Thread (A) M18x1 **Tightening torque** 30 Nm

#### Range/Distance

Hysteresis H max. (% of Sr) 15.0 % 1...8 mm Measuring range 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.

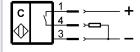
If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output. For more information about MTTF and B10d see MTTF / B10d Certificate

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**



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