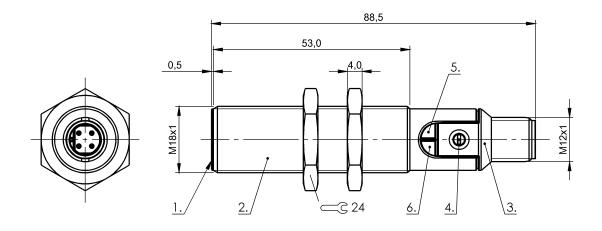
## Capacitive Sensors BCS M18B4I3-PSC80D-S04K Order Code: BCS00MF





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

## **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 cofety	
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 M18B4I3-PSC80D-S04K Order Code: BCS00MF



### **Mechanical data**

		-	
Dimension	Ø 18 x 88.5 mm	Hysteresis H max. (% of Sr)	15.0 %
Installation	for flush mounting	Measuring range	18 mm
Size	M18x1	Rated operating distance Sn	8 mm
Thread (A)	M18x1	Repeat accuracy max. (% of Sr)	2.0 %
Tightening torque	30 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**

