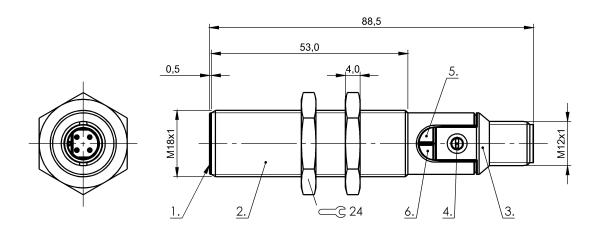
# BCS M18B4I3-PSC80D-S04K

Order Code: BCS00MF





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



Basic	features
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Additional features weld-immune (magnetic field 100kA/m)

Approval/Conformity CE cULus EAC WEEE

Basic standardIEC 60947-5-2Scope of deliveryNut (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 protectedyesProtection against device mix-upsnoShort-circuit protectionyes

#### **Electrical data**

No-load current lo max. at Ue 18 mA Operating voltage Ub 10...30 VDC 75 V DC Rated insulation voltage Ui 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 DC -13 **Utilization category** Voltage drop static max. 1.5 V

#### **Environmental conditions**

Ambient temperature -25...85 °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 M18B4I3-PSC80D-S04K Order Code: BCS00MF



#### Mechanical data

DimensionØ 18 x 88.5 mmInstallationfor flush mountingSizeM18x1Thread (A)M18x1Tightening torque30 Nm

#### Range/Distance

Hysteresis H max. (% of Sr)

15.0 %

Measuring range
1...8 mm

Rated operating distance Sn

Repeat accuracy max. (% of Sr)

Temperature drift max. (% of Sr)

2.0 %

2.0 % [-5...55 °C]

#### Remarks

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

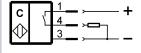
If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output. For more information about MTTF and B10d see MTTF / B10d Certificate

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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