

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









Basic features	
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 Power indicator	yes yes
Electrical connection	
Connection  Number of pins  Polarity reversal protected  Protection against device mix-ups  Short-circuit protection	M12x1-Male, 3-pin, A-coded 3 yes no yes

Flootrical	doto
Electrical	uata

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 closed (NC)

#### Material

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

Capacitive Sensors

# BCS M18B4I3-POC80D-S04K Order Code: BCS00M4



#### 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 % 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.

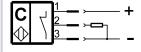
If no change in the switching signal is detected, the potentiometer should be turned forwards or backwards until a signal change occurs at the output. For more information about MTTF and B10d see MTTF / B10d Certificate

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 (Schematic)



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