

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



**Basic features**

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

**Electrical data**

<b>No-load current I<sub>0</sub> max. at U<sub>e</sub></b>	18 mA
<b>Operating voltage U<sub>b</sub></b>	10...30 VDC
<b>Rated insulation voltage U<sub>i</sub></b>	75 V DC
<b>Rated operating current I<sub>e</sub></b>	100 mA
<b>Rated operating voltage U<sub>e</sub> DC</b>	24 V
<b>Ready delay t<sub>v</sub> max.</b>	300 ms
<b>Ripple max. (% of U<sub>e</sub>)</b>	10 %
<b>Switching frequency</b>	100 Hz
<b>Utilization category</b>	DC -13
<b>Voltage drop static max.</b>	1.5 V

**Display/Operation**

<b>Function indicator</b>	yes
<b>Power indicator</b>	yes

**Environmental conditions**

<b>Ambient temperature</b>	-25...85 °C
<b>Contamination scale</b>	1
<b>Protection degree</b>	IP67
<b>Storage temperature</b>	-25...85 °C

**Electrical connection**

<b>Connection</b>	M12x1-Male, 3-pin, A-coded
<b>Polarity reversal protected</b>	yes
<b>Protection against device mix-ups</b>	no
<b>Short-circuit protection</b>	yes

**Functional safety**

<b>MTTF (40 °C)</b>	343 a
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**Material**

<b>Cover material</b>	PBT PA
<b>Housing material</b>	Stainless steel (1.4305)
<b>Material sensing surface</b>	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

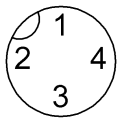
**Range/Distance**

Hysteresis H max. (% of Sr)	15.0 %
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]

**Output/Interface**

Switching output	PNP normally open (NO)
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**Connector Drawings**



**Wiring Diagrams**

