Capacitive Sensors
BCS M18BBI3-POC80D-S04K
Order Code: BCS00MH

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

Basic features
Approval/Conformity
CE
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 Io max. at Ue
18 mA
Operating voltage Ub
10...30 VDC
Protection class
II
Rated insulation voltage Ui
75 V DC
Rated operating current Ie
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
-25...85 °C
Contamination scale
1
Protection degree
IP67
Storage temperature
-25...85 °C

Functional safety
MTTF (40 °C)
343 a

Material
Cover material
PBT
PA
Housing material
PBT
Material sensing surface
PBT

Internet
www.balluff.com

Subject to change without notice: 186648
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Mechanical data
- Dimension: Ø 18 x 88.5 mm
- Installation: for flush mounting
- Size: M18x1
- Thread (A): M18x1
- Tightening torque: 2 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 closed (NC)

Connector Drawings

Wiring Diagrams