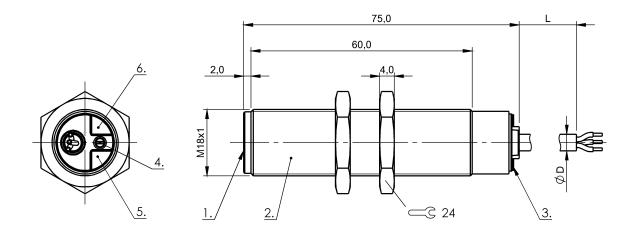
BCS M18BBN1-NSC80D-EP02

Order Code: BCS00M2





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











Approval/Conformity	CE
	cULus
	EAC
	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

Cable diameter D	4.60 mm
Cable length L	2 m
Conductor cross-section	0.34 mm ²
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	no
Short-circuit protection	yes

Electrical data

No-load current lo max., undamped	15 mA
Operating voltage Ub	1030 VDC
Protection class	II
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
IP rating	IP67
Storage temperature	-2585 °C

Functional safety

MTTF (40 °C)	343 a
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Interface

Subject to change without notice: 186625

Switching output NPN normally open (NO)

Capacitive Sensors

BCS M18BBN1-NSC80D-EP02 Order Code: BCS00M2



Material

Cover materialPAHousing materialPBTMaterial jacketPURMaterial sensing surfacePBT

Mechanical data

 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]

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.

Wiring Diagrams

