



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



Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Cable diameter D	3.50 mm
Cable length	2 m
Conductor cross-section	0.14 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 I _o max., undamped	13 mA
Operating voltage U _b	10...30 VDC
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	100 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	100 ms
Residual ripple max. (% of U _e)	10 %
Switching frequency	100 Hz
Utilization category	DC-13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...85 °C
IP rating	IP67
Storage temperature	-25...85 °C

Functional safety

MTTF (40 °C)	226 a
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General data

Approval/Conformity	CE cULus
Basic standard	IEC 60947-5-2
Scope of delivery	Nut (2x)
Sensitivity	Switching distance adjustable
Trademark	Global

Material

Cover material	PA
Housing material	Stainless steel (1.4305)
Material jacket	PUR
Material sensing surface	PBT

Mechanical data

Dimension	Ø 12 x 61 mm
Installation	non-flush
Size	M12x1
Tightening torque	40 Nm

Output/Interface

Switching output	PNP Normally open (NO)
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Range/Distance

Hysteresis H max. (% of Sr)	15.0 %
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Capacitive Sensors
BCS M12B4G1-PSC80H-EP02
Ordercode: BCS00PC

Measuring range	1...8 mm
Rated operating distance S_n	8 mm
Repeat accuracy max. (% of S_r)	2.0 %
Temperature drift max. (% of S_r)	20 % [-5...55 °C]

Remarks

Full accuracy after warmup phase

For further information about the 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 Diagram

