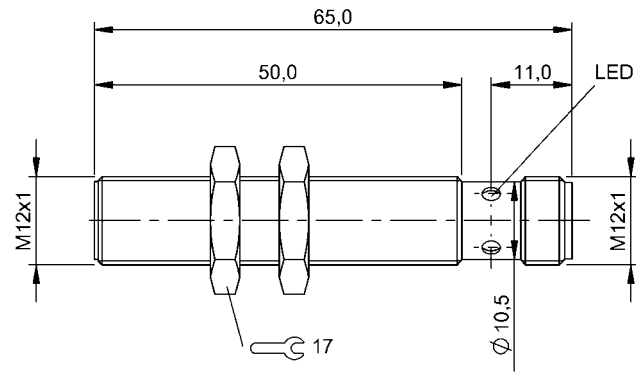


Inductive Sensors
BES M12EI-PSC40B-S04G-L01
Order Code: BES0435



Basic features

Approval/Conformity	CE UKCA cULus Ecolab WEEE
Basic standard	IEC 60947-5-2
Trademark	Proxinox®

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	0.5 μ F
Min. operating current Im	0 mA
No-load current Io max., damped	10 mA
No-load current Io max., undamped	3 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	33.0 kOhm + D
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	20 ms
Residual current Ir max.	10 μ A
Ripple max. (% of Ue)	15 %
Switching frequency	1000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...85 °C
Chemical resistance	6 % H2O2 solution 15 % H2O2 solution 3 % H2O2 solution
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP68, according to BWN Pr 20
IP rating per DIN 40050	IP69K

Functional safety

MTTF (40 °C)	830 a
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Interface

Switching output PNP normally open (NO)

Material

Housing material 1.4404 stainless steel
Material sensing surface LCP

Mechanical data

Dimension Ø 12 x 65 mm
Installation for flush mounting
Mounting length 50.00 mm
Size M12x1
Tightening torque 12 Nm

Range/Distance

Assured operating distance Sa 3.2 mm
Hysteresis H max. (% of Sr) 15.0 %
Rated operating distance Sn 4 mm
Real switching distance sr 4 mm
Repeat accuracy max. (% of Sr) 5.0 %
Switching distance marking ■■
Temperature drift max. (% of Sr) 10 %
Tolerance Sr ±10 %

Remarks

Flush: See installation instructions for inductive sensors with extended range 939221.
The sensor is functional again after the overload has been eliminated.
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

