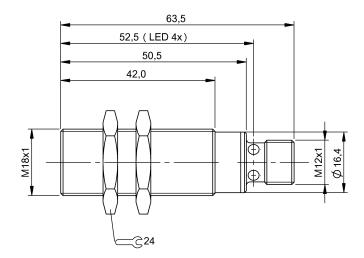
BES M18MG1-PSC12B-S04G Order Code: BES02Y9













Basic features

Approval/Conformity CE cULus EAC

WEEE

Basic standard IEC 60947-5-2

Display/Operation

Function indicator yes Power indicator

Electrical connection

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

Electrical data

Load capacitance max. at Ue $1 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 10 mA No-load current lo max., undamped 10 mA Operating voltage Ub 10...30 VDC Output resistance Ra 47.0 kOhm 75 V DC Rated insulation voltage Ui Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 50 ms Residual current Ir max. 100 μΑ Ripple max. (% of Ue) 15 % 500 Hz Switching frequency **Utilization category** DC -13 Voltage drop static max. 2.5 V

Environmental conditions

-25...70 °C Ambient temperature 3 Contamination scale

EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

Protection degree IP67

Functional safety

MTTF (40 °C) 870 a

BES M18MG1-PSC12B-S04G Order Code: BES02Y9



Material

Housing material Brass PBT Material sensing surface Surface protection Chrome-plated

Mechanical data

Dimension Ø 18 x 63.5 mm Installation quasi-flush Size M18x1 Tightening torque 25 Nm

Output/Interface

Switching output	PNP normally open (NO)
Range/Distance	
Assured operating distance Sa	9.6 mm
Hysteresis H max. (% of Sr)	10.0 %
Rated operating distance Sn	12 mm
Real switching distance sr	12 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Quasi-flushed: See installation instructions for inductive sensors with extended range 825356.

The sensor is functional again after the overload has been eliminated.

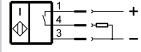
For more information about MTTF and B10d see MTTF / B10d Certificate

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



2/2