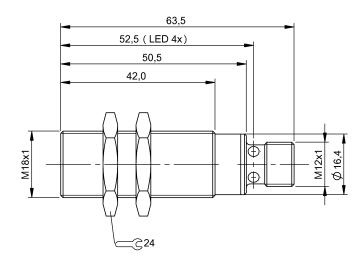
BES M18MG1-PSC12B-S04G Order Code: BES02Y9

BALLUFF











Basic features

Approval/Conformity CE cULus EAC WEEE

IEC 60947-5-2 Basic standard

Display/Operation

Function indicator yes Power indicator no

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 Rated insulation voltage Ui 75 V DC 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 15 % Ripple max. (% of Ue) 500 Hz Switching frequency **Utilization category** DC -13 Voltage drop static max. 2.5 V

Environmental conditions

-25...70 °C Ambient temperature 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

Protection degree IP67

Functional safety

MTTF (40 °C) 870 a

Material

Housing material Brass, Chrome-plated

Material sensing surface PBT

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Mechanical data

DimensionØ 18 x 63.5 mmInstallationquasi-flushSizeM18x1Tightening torque25 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

