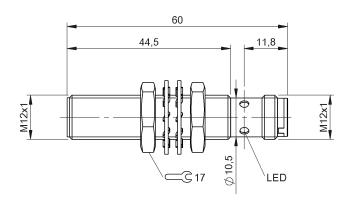
BES M12MG1-PSC80B-S04G **Order Code: BES05KH**





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Approval/Conformity CE cULus

EAC WEEE

Basic standard IEC 60947-5-2

Display/Operation

Function indicator ves Power indicator no

Electrical connection

Connection M12x1-Male, 3-pin, A-coded

Polarity reversal protected ves Protection against device mix-ups yes Short-circuit protection yes

Electrical data

Ripple max. (% of Ue)

Load capacitance max. at Ue $1.5 \, \mu F$ Min. operating current Im 0 mA No-load current lo max., damped 11 mA No-load current lo max., undamped 7 mA Operating voltage Ub 10...30 VDC Output resistance Ra 47.0 kOhm **Protection class**

Rated insulation voltage Ui 250 V AC 200 mA Rated operating current le 24 V Rated operating voltage Ue DC Rated short circuit current 100 A Ready delay tv max. 35 ms Residual current Ir max. 100 μΑ

Switching frequency 500 Hz DC -13 Utilization category Voltage drop static max. 1.3 V

15 %

Environmental conditions

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

EN 60068-2-27, Shock Half-sinus, 30 g_n , 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

IP rating IP68, according to BWN Pr 20

Functional safety

MTTF (40 °C) 625 a

Interface

Switching output PNP normally open (NO)

Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

Dimension Ø 12 x 60 mm Installation quasi-flush

Tightening torque 10 Nm

Range/Distance

Assured operating distance Sa 6.1 mm Hysteresis H max. (% of Sr) 20 % Rated operating distance Sn 8 mm Real switching distance sr 8 mm Repeat accuracy max. (% of Sr) 10 % Switching distance marking

Temperature drift max. (% of Sr) **Tolerance Sr**

10 %

±10 %

Inductive Sensors

BES M12MG1-PSC80B-S04G **Order Code: BES05KH**



Remarks

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

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

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