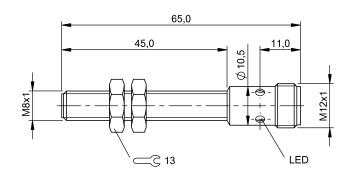
BES M08MH1-PSC20B-S04G-101

Order Code: BES02PU











Basic features

Approval/Conformity CE cULus WEEE Base type deviation Ceramic coating Basic standard IEC 60947-5-2

Display/Operation

Function indicator yes Power indicator no

Electrical connection

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

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 5 mA Operating voltage Ub 12...30 VDC Output resistance Ra 33.0 kOhm + D 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. 30 ms Residual current Ir max. 20 μΑ Ripple max. (% of Ue) 15 % 700 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 g_n , 11 ms

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

IP rating IP67

Functional safety

MTTF (40 °C) 880 a

Interface

Subject to change without notice: 158558

Switching output PNP normally open (NO)

Inductive Sensors

BES M08MH1-PSC20B-S04G-101 Order Code: BES02PU



Material

Housing materialBrass, nickel-platedMaterial sensing surfaceceramic coated

Mechanical data

Tightening torque

Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr 1.4 mm 15.0 % 2 mm 2 mm 5.0 %

10 % ±10 %

Remarks

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

Sn: reduced by the coating thickness of 0.2 mm.

Flush: See installation instructions for inductive sensors with extended range 825357.

3 Nm

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

