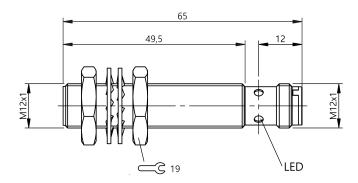
BES M12MI-PSC40A-S04G-W08

Order Code: BES05KT















Basic features

Additional features	Factor 1

Extended temperature range Housing resistant to weld spatter weld-immune (magnetic field

100kA/m)

Approval/Conformity

CE UKCA WEEE

Basic standard Scope of delivery IEC 60947-5-2 2x nut M12x1

Toothed washer D13 (2x) Trademark

Factor 1

Display/Operation

Function indicator yes Power indicator no

Electrical connection

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

Electrical version 3-wire Polarity reversal protected yes Protection against device mix-ups yes Short-circuit protection

Electrical data

Load capacitance max. at Ue 1μF Min. operating current Im 0 mA No-load current lo max., damped 27 mA No-load current lo max., undamped 20 mA Operating voltage Ub 10...30 VDC Output resistance Ra 100.0 kOhm Protection class П 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 10 % Ripple max. (% of Ue) Switching frequency 2000 Hz DC -13 Utilization category 1.5 V Voltage drop static max.

Environmental conditions

-40...85 °C Ambient temperature 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 IP68, according to BWN Pr 20 Magnetic field immune magnetic field immune (AC/DC)

Functional safety

MTTF (40 °C) 365 a

Interface

Subject to change without notice: 263953

Switching output PNP normally open (NO)

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Material

Housing material Brass, PTFE coated Material sensing surface

Mechanical data

Dimension Ø 12 x 65 mm Installation for flush mounting Mounting length 49.5 mm M12x1 Size 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

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

When using a cast iron target the deviation in the effective operating distance Sr will be greater than ±10%.

When installing the sensor in a clamp with positive stop deviations in Sr may result.

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.

Subject to change without notice: 263953

Connector Drawings



Wiring Diagrams

