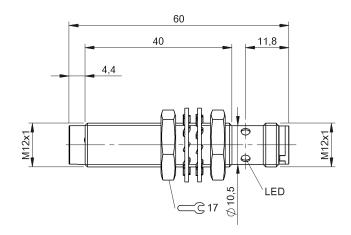
BES M12MF1-YIC10F-S04G

Order Code: BES05T8













IO-Link Mode







Basic features

Application Object detection Approval/Conformity CE UKCA cULus EAC WEEE IEC 60947-5-2 Basic standard SIO Mode Operating mode

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 20 mA 16 mA No-load current lo max., undamped Operating voltage Ub 18...30 VDC Output resistance Ra 33.0 kOhm + D **Protection class** Rated insulation voltage Ui 250 V AC Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Ready delay tv max. 80 ms Residual current Ir max. 10 μΑ 15 % Ripple max. (% of Ue) 500 Hz Switching frequency **Utilization category** DC -13 Voltage drop static max. 1.2 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 IP68, according to BWN Pr 20

Functional safety

MTTF (40 °C) 304 a

Inductive Sensors

BES M12MF1-YIC10F-S04G Order Code: BES05T8



Interface

Interface IO-Link 1.1
Interface setting option Factory setting (Reset)
SIO mode/IO-Link mode
Teach-In of switchpoints

Process data IN Teaching successfully reply
1 byte
Switching state

Target too close/far

Switching output 2x PNP/NPN/push-pull NO/NC

Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

Mechanical data

 Dimension
 Ø 12 x 60 mm

 Installation
 non-flush

 Size
 M12x1

 Tightening torque
 10 Nm

Range/Distance

Hysteresis H max. (% of Son)

Hysteresis H max. (% of Sr)

15 %

Measuring range

7...11 mm

Rated operating distance Sn

Repeat accuracy max. (% of Sr)

Switching distance marking

Remarks

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

Sensors with IO-Link function are not suitable for series or parallel wiring.

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

