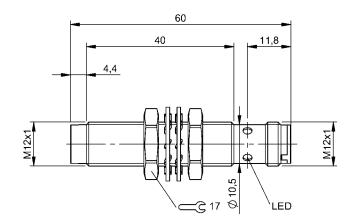
Inductive Sensors

# BES M12MF1-YIC10F-S04G

Order Code: BES05T8

















### Basic features

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

# Display/Operation

Function indicator yes Power indicator no

### **Electrical connection**

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

### Electrical data

Load capacitance max. at Ue 1μF Min. operating current Im 0 mA No-load current lo max., damped 20 mA No-load current lo max., undamped 16 mA Operating voltage Ub 18...30 VDC 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) Switching frequency 500 Hz Utilization category DC -13 1.2 V Voltage drop static max.

#### **Environmental conditions**

IO-Link Profil IDs

Subject to change without notice: 271419

-25...70 °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 Functional safety MTTF (40 °C) 304 a 10-Link

1/2

0x0001 SSP0

### **Inductive Sensors**

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### 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

 Mounting length
 40.0 mm

 Size
 M12x1

 Tightening torque
 10 Nm

### Range/Distance

Hysteresis H max. (% of Sr)

Measuring range

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

