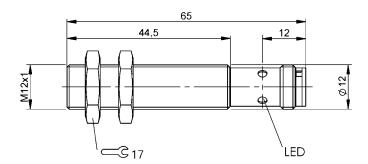
BES M12EH1-L01C40B-S04G-L04

Order Code: BES05Y7















Basic features

Application Object detection Approval/Conformity CE UKCA cULus WEEE Ecolab IEC 60947-5-2 Basic standard Operating mode SIO Mode IO-Link Mode Scope of delivery 2x nut M12x1 Secondary features for condition Vibration monitoring monitoring Inclination monitoring and installation aid Internal temperature monitoring Internal humidity detection

Display/Operation

Function indicator yes Power indicator no

Electrical connection

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

Electrical data

Load capacitance max. at Ue 0.25 µF Operating voltage Ub 10...30 VDC Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 300 ms 10 % Ripple max. (% of Ue) Switching frequency 1000 Hz Utilization category DC -13 Voltage drop static max. 1.5 V

Environmental conditions

-40...85 °C Ambient temperature 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 IP68. IP69K IP rating

Functional safety

MTTF (40 °C) 380.7 a

BES M12EH1-L01C40B-S04G-L04 Order Code: BES05Y7



PBT

10-Link

IO-Link Profil IDs

0x0004 SSP2.1

0x0005 SSP2.2

0x0006 SSP2.3

0x4000 Identification and

Diagnosis

Supported IO-Link Profiles Common Profile

Legacy Smart Sensor Profile Smart Sensor Profile - Adjustable

Switching Sensor

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

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

Push-pull NO/NC

Material

Housing material 1.4404 stainless steel

Material sensing surface

Mechanical data

 Dimension
 Ø 12 x 65 mm

 Installation
 quasi-flush

 Mounting length
 44.5 mm

 Size
 M12x1

 Tightening torque
 10 Nm

Range/Distance

Assured operating distance Sa

Hysteresis H max. (% of Sr)

Measuring range

Rated operating distance Sn

Repeat accuracy max. (% of Sr)

Switching distance marking

Temperature drift max. (% of Sr)

Tolerance Sr

3.2 mm

4 mm

5 %

5 %

10 %

Remarks

After eliminating the overload, the sensor must be disconnected from the supply voltage. The sensor is then functional again. Sensors with IO-Link function are not suitable for series or parallel wiring.

Quasi-flush: See installation instructions for inductive sensors with extended range 939221

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: 282010

Connector Drawings



Wiring Diagrams

