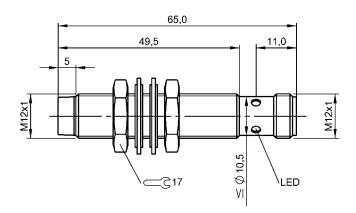
BAW M12MH1-ICC40F-S04G

Order Code: BAW003N















Rasic	features	
Dasic	reatures	١

Approval/Conformity CE

UKCA cULus WEEE

Basic standard IEC 60947-5-2 IEC 60947-5-7

Display/Operation

Function indicator Adjustment indicator Power indicator no

Electrical connection

M12x1-Male, 3-pin, A-coded Connection Polarity reversal protected yes

Protection against device mix-ups yes Short-circuit protection ves

Electrical data

Limit frequency -3 dB 500 Hz Load resistance RL max. 500 Ohm No-load current lo max. at Ue 10 mA 10...30 VDC Operating voltage Ub Protection class Rated insulation voltage Ui 250 V AC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 15% Slope I 5.30 mA/mm **Environmental conditions**

Ambient temperature -10...70 °C 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 IP rating IP67

Functional safety MTTF (40 °C) 640 a

Analog output Analog, current 4...20 mA Output characteristic falling on approach

Output current at SI max. 20 mA 4 mA Output current at SI min. 12 mA Output current at Se

Material

Interface

Housing material Brass, nickel-plated

Material sensing surface PBT

Mechanical data

Tightening torque

Dimension Ø 12 x 65 mm Installation non-flush Mounting length 44.5 mm Size M12x1 15 Nm

Inductive Sensors

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Range/Distance

Linearity range SI 1...4 mm Measuring range 1...4 mm

±120 μm Non-linearity max. Repeat accuracy per BWN ±8 µm Temperature drift max. from end value ±5.0 %

Remarks

Values referenced to axial approach of St 37 target. For other materials correction factors are applied.

Load resistance RL max. applies for Ub min. 16V.

Scattering (e.g. due to manufacturing tolerances) is described by the tolerance T at Se. This can be approximated using the formula: T = (slmax + slmin) / 20

UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.

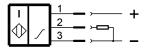
For more information about MTTF and B10d see MTTF / B10d Certificate

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



Subject to change without notice: 278761

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Technical Drawings ۱_a 20 mA 12 mA 4 mA 0 mA S_I max S S_{I} min S_{\parallel}