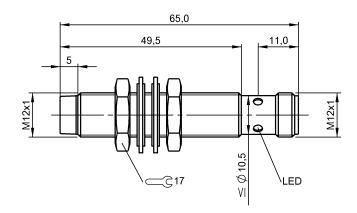
# BAW M12MH1-ICC40F-S04G

**Order Code: BAW003N** 















## **Basic features**

Approval/Conformity CE UKCA cULus WEEE IEC 60947-5-2 Basic standard IEC 60947-5-7

## Display/Operation

**Function indicator** Adjustment indicator Power indicator no

#### **Electrical connection**

Connection M12x1-Male, 3-pin, A-coded Polarity reversal protected yes Protection against device mix-ups ves 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 Operating voltage Ub 10...30 VDC **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 Half-sinus, 30  $g_n$ , 11 ms EN 60068-2-27. Shock EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min IP rating IP67

## **Functional safety**

MTTF (40 °C) 640 a

#### **Interface**

Analog output Analog, current 4...20 mA **Output characteristic** falling on approach Output current at SI max. 20 mA Output current at SI min. 4 mA Output current at Se 12 mA

#### Material

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Housing material Brass, nickel-plated Material sensing surface PBT

## Mechanical data

Dimension Ø 12 x 65 mm Installation non-flush Size M12x1 Tightening torque 15 Nm

#### **Inductive Sensors**

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Range/Distance

Linearity range SI 1...4 mm

Measuring range 1...4 mm

Non-linearity max.

Repeat accuracy per BWN

Temperature drift max. from end

±120 μm ±8 μm ±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 = + xx mm

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

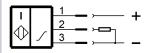
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



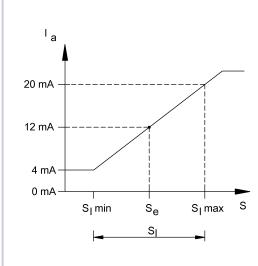
## **Wiring Diagrams**



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# **Technical Drawings**



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