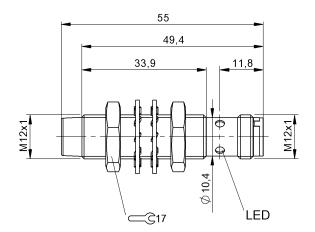
BAW M12MF-ICC70G-S04G Order Code: BAW006C















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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

 Connection
 M12x1-Male, 4-pin, A-coded

 Polarity reversal protected
 yes

 Protection against device mix-ups
 yes

 Short-circuit protection
 yes

Electrical data

Limit frequency -3 dB 1000 Hz Load resistance RL max. 500 Ohm No-load current lo max. at Ue 15 mA 16...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 2.35 mA/mm

Environmental conditions

Ambient temperature -40...80 °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 IP68

Functional safety

MTTF (40 °C) 533 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

Housing material Brass, Nickel-free coated

Material sensing surface LCP

Mechanical data

 Dimension
 Ø 12 x 55 mm

 Installation
 non-flush

 Mounting length
 33.9 mm

 Size
 M12x1

 Tightening torque
 10 Nm

Inductive Sensors

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Range/Distance

Linearity range SI0.2...7 mmMeasuring range0.2...7 mm

 $\begin{tabular}{lll} \begin{tabular}{lll} Non-linearity max. & $\pm 70~\mu m$ \\ \hline Repeat accuracy per BWN & $\pm 7~\mu m$ \\ \hline Temperature drift max. from end value & $\pm 5.0~\%$ \\ \end{tabular}$

Remarks

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

We recommend to connect the teach line to the negative lead (L-) when not in use.

The working range can be taught using the Teach line or the BAE PD-AW-009-S04 programmer (order code BAE00MN).

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 = +xxmm.

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

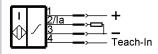
For more information about MTTF and B10d see MTTF / B10d Certificate

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

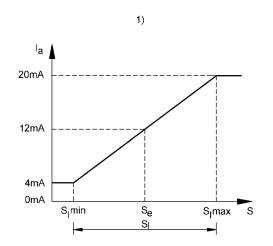


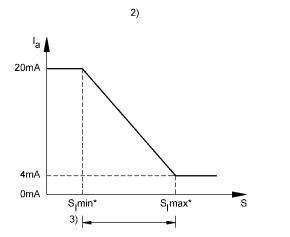
2/3

BAW M12MF-ICC70G-S04G Order Code: BAW006C

BYLLUFF

Technical Drawings





- 1) Standard characteristic curve
- 2) Reduced measuring range
- 3) Minimum width SI/3

Subject to change without notice: 282170