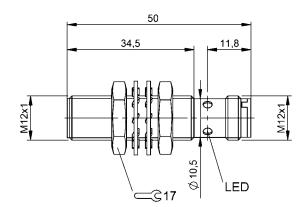
BAW M12MF-IAC35C-S04G

Order Code: BAW006A















Pacia	footuros
Basic	features

Basic standard

Approval/Conformity CE UKCA cULus

WEEE IEC 60947-5-2 IEC 60947-5-7

Display/Operation

Function indicator Adjustment indicator 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 ves

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 6.06 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 IP67

Functional safety

MTTF (40 °C) 533 a

Interface

Analog output Analog, current 0...20 mA Output characteristic falling on approach

Output current at SI max. 20 mA 0 mA Output current at SI min. 10 mA Output current at Se

Material

Subject to change without notice: 282169

Housing material Brass, Nickel-free coated

PBT

Mechanical data

Material sensing surface

Dimension Ø 12 x 50 mm Installation for flush mounting Mounting length 29.5 mm Size M12x1

10 Nm Tightening torque

Inductive Sensors

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Range/Distance

Linearity range SI0.2...3.5 mmMeasuring range0.2...3.5 mm

Non-linearity max. $\pm 53 \ \mu m$ Repeat accuracy per BWN $\pm 7 \ \mu m$ Temperature drift max. from end value $\pm 5.0 \ \%$

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-008-S04 programmer (order code BAE00MP).

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.

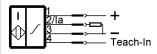
For more information about MTTF and B10d see MTTF / B10d Certificate

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



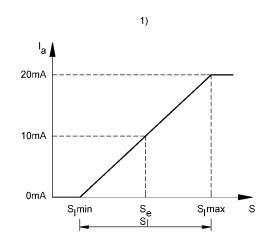
Wiring Diagrams

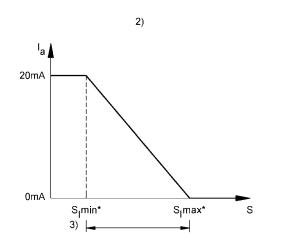


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BYLLUFF

Technical Drawings





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

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