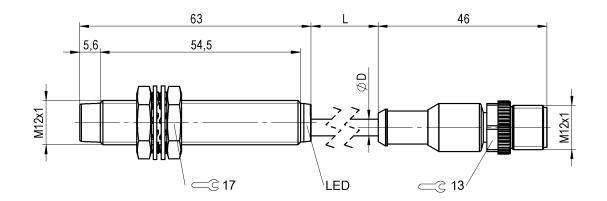
BAW M12MM-UAC70G-BP00,2-GS04

Order Code: BAW004E















D : -	£ 4
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

Cable diameter D 4.60 mm Cable length L 0.2 m Connection M12x1-Male, 4-pin, A-coded Connection type Cable with connector, 0.20 m, PUR Polarity reversal protected Protection against device mix-ups yes Short-circuit protection

yes

Electrical data

Limit frequency -3 dB 1000 Hz Load resistance RL min. 2000 Ohm No-load current lo max. at Ue 15 mA Operating voltage Ub 15...30 VDC Protection class П Rated insulation voltage Ui 250 V AC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 15% Slope U 1.47 V/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) 550 a

Interface

Analog output Analog, voltage 0...10 V Output characteristic falling on approach

Output voltage at SI max. 10 V 0 V Output voltage at SI min. 5 V Output voltage at Se

Material

Subject to change without notice: 285580

Housing material Brass, Nickel-free coated Material jacket PUR

Material sensing surface LCP

Mechanical data

Ø 12 x 63 mm Dimension Installation non-flush Mounting length 54.5 mm Size M12x1 Tightening torque 10 Nm

Inductive Sensors

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Range/Distance

Linearity range SI 0.2...7 mm Measuring range 0.2...7 mm

±70 μm Non-linearity max. Repeat accuracy per BWN ±7 µm Temperature drift max. from end value ±8.0 %

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.

At temperatures below -25°C the cable must be fixed in place.

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

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

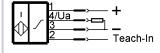
For more information about MTTF and B10d see MTTF / B10d Certificate

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

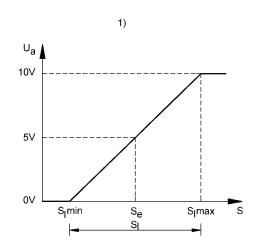


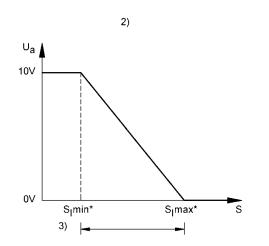
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Technical Drawings





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

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