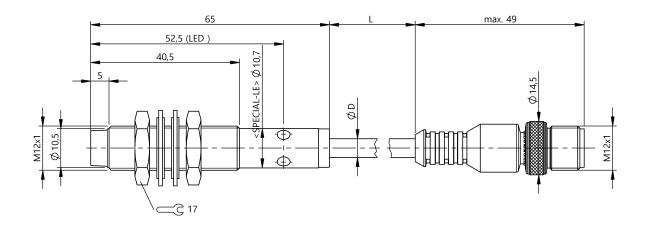
BAW M12MF2-UAC40F-BP01,5-GS04

Order Code: BAW0016















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

Cable diameter D 4.70 mm Cable length L 1.5 m

Connection M12x1-Male, 3-pin, A-coded Connection type Cable with connector, 1.50 m,

> PUR yes

Polarity reversal protected Protection against device mix-ups yes Short-circuit protection ves

Electrical data

Limit frequency -3 dB 500 Hz Load resistance RL min. 2000 Ohm No-load current lo max. at Ue 10 mA Operating voltage Ub 15...30 VDC **Protection class** Rated insulation voltage Ui 250 V AC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 15 % Slope U 3.30 V/mm

Environmental conditions

Ambient temperature -10...70 °C Contamination scale

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

Interface

Subject to change without notice: 278754

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

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

Inductive Sensors

BAW M12MF2-UAC40F-BP01,5-GS04 Order Code: BAW0016



Material

Housing material Brass, nickel-plated

Material jacketPURMaterial sensing surfacePBT

Mechanical data

Range/Distance

 Linearity range SI
 1...4 mm

 Measuring range
 1...4 mm

 Non-linearity max.
 ±90 μm

 Repeat accuracy per BWN
 ±10 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.

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

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

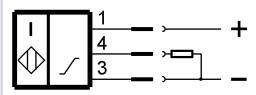
For more information about MTTF and B10d see MTTF / B10d Certificate

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



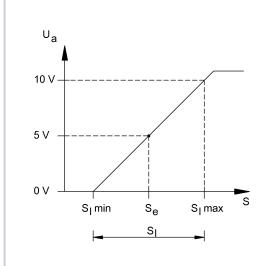
Wiring Diagrams



BAW M12MF2-UAC40F-BP01,5-GS04 Order Code: BAW0016



Technical Drawings



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