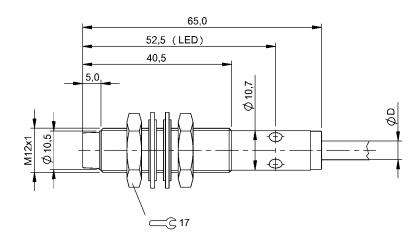
# BAW M12MF2-UAC40F-BP05

Order Code: BAW0018















#### Basic features

Approval/Conformity CE UKC

UKCA cULus WEEE

**Basic standard** 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
 5 m

 Conductor cross-section
 0.34 mm²

 Connection type
 Cable, 5.00 m, PUR

Number of conductors 3
Polarity reversal protected yes
Protection against device mix-ups
Short-circuit protection yes

#### 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 3

 EN 60068-2-27, Shock
 Half-sinus, 30 gn, 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

Analog output Analog, voltage 0...10 V

Output characteristic falling on approach

#### Inductive Sensors

### BAW M12MF2-UAC40F-BP05 Order Code: BAW0018



#### Material

Housing material Brass, nickel-plated

Material jacketPURMaterial sensing surfacePBT

#### Mechanical data

 Dimension
 Ø 12 x 65 mm

 Installation
 non-flush

 Mounting length
 35.5 mm

 Size
 M12x1

 Tightening torque
 15 Nm

#### Range/Distance

Linearity range SI1...4 mmMeasuring range1...4 mmNon-linearity max. $\pm 90 \ \mu m$ Repeat accuracy per BWN $\pm 10 \ \mu m$ 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.

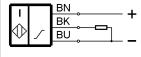
Scattering (e.g. due to manufacturing tolerances) is described by the tolerance T at Se. This can be approximated using the formula:  $T = (slmax + slmin) / 20 = \pm xx mm$ .

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

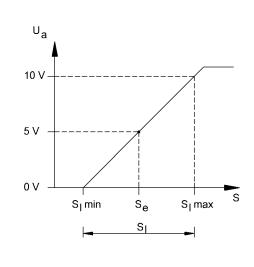
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

### Wiring Diagrams





## **Technical Drawings**



Subject to change without notice: 278746