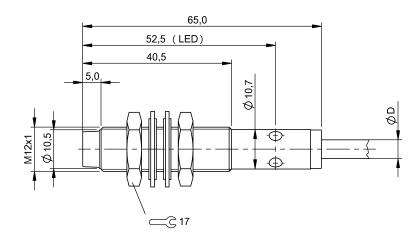
BAW M12MF2-UAC40F-BP03

Order Code: BAW0017















Basic features

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

 Cable diameter D
 4.60 mm

 Cable length L
 3 m

 Conductor cross-section
 0.34 mm²

Connection type Cable, 3.00 m, PUR

 Number of conductors
 3

 Polarity reversal protected
 yes

 Protection against device mix-ups
 yes

 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 II

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 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

Analog output Analog, voltage 0...10 V

Output characteristic falling on approach

Inductive Sensors

BAW M12MF2-UAC40F-BP03 Order Code: BAW0017



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
 ±5.0 %

Remarks

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

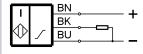
Scattering (e.g. due to manufacturing tolerances) is described by the tolerance T at Se. This can be approximated using the formula: $T = (slmax + slmin) / 20 = \pm xx mm$.

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.

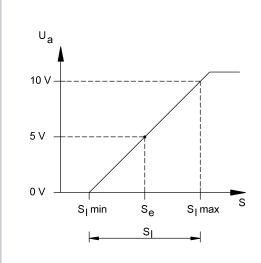
Wiring Diagrams



BAW M12MF2-UAC40F-BP03 **Order Code: BAW0017**

BALLUFF

Technical Drawings



Subject to change without notice: 278753