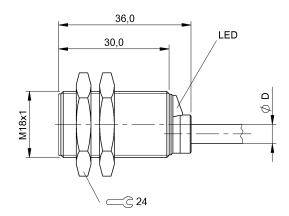
BAW M18ME-ICC50B-BP03

Order Code: BAW001T













Basic featu	ires

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 0.34 mm² Conductor cross-section Connection type Cable, 3.00 m, PUR Number of conductors 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 max. 500 Ohm No-load current lo max. at Ue 10 mA Operating voltage Ub 15...30 VDC Rated insulation voltage Ui 75 V DC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 15 % Slope I 4.00 mA/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, current 4...20 mA Output characteristic falling on approach Output current at SI max. 20 mA 4 mA Output current at SI min. 12 mA Output current at Se

Material

Housing material Brass, nickel-plated Material jacket PUR Material sensing surface PBT

Mechanical data

Dimension Ø 18 x 36 mm Installation for flush mounting Mounting length 30.0 mm Size M18x1 Tightening torque 25 Nm

Inductive Sensors

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Range/Distance

Linearity range SI 1...5 mm

Measuring range 1...5 mm

Non-linearity max. $\pm 120 \ \mu m$ Repeat accuracy per BWN $\pm 8 \ \mu m$ 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.

Load resistance RL max. applies for Ub min. 16V.

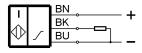
When used in Balluff clamping holders, Ua may be reduced by max. 10%.

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

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

