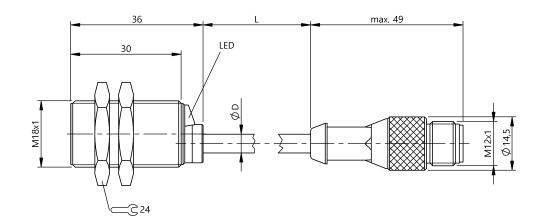
BAW M18ME-UAC50B-BP00,2-GS04

Order Code: BAW001Z













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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 4.70 mm Cable length L 0.2 m Connection M12x1-Male, 3-pin, A-coded Connection type Cable with connector, 0.20 m, PUR Polarity reversal protected Protection against device mix-ups yes

Electrical data

500 Hz Limit frequency −3 dB 2000 Ohm Load resistance RL min. 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%

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

Output characteristic falling on approach 10 V Output voltage at SI max. Output voltage at SI min. 0 V 5 V Output voltage at Se

Material

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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 25 Nm Tightening torque

Inductive Sensors

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Range/Distance

Linearity range SI 1...5 mm Measuring range 1...5 mm Non-linearity max. ±120 μm Repeat accuracy per BWN ±8 µm Temperature drift max. from end value ±5.0 %

Remarks

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

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 = ± xx mm.

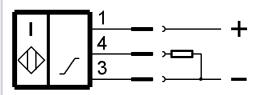
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams

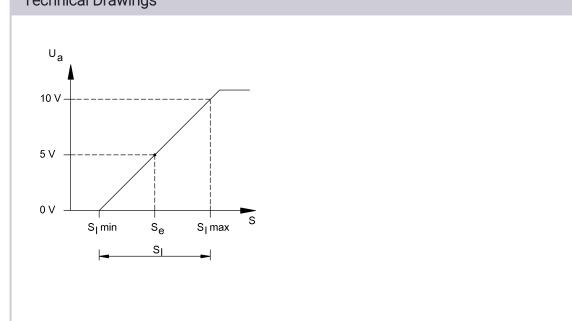


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Technical Drawings



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