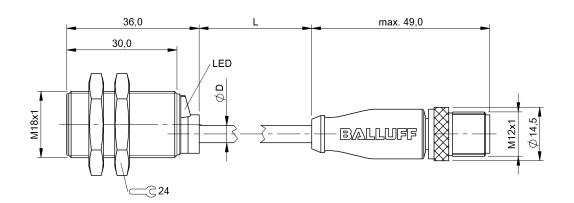
BAW M18ME-UAC48B-BP01,5-GS04-003

BYLLUFF Order Code: BAW003T











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Ва	SIC	features	

Approval/Conformity CE UKCA cULus WEEE Base type deviation Shielded pigtail contacts housing Basic standard IEC 60947-5-2 IEC 60947-5-7

Display/Operation

Function indicator Adjustment indicator Power indicator no

Electrical connection

Bending radius min., fixed cable 5 x D Bending radius min., flexible cable 10 x D 4.5...4.7 mm Cable diameter D Cable length L 1.5 m M12x1-Male, 3-pin, A-coded Connection Connection type Cable with connector, 1.50 m, PUR Number of conductors 3 Polarity reversal protected yes Protection against device mix-ups ves 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 15...30 VDC Operating voltage Ub Rated insulation voltage Ui 75 V DC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 15% Slope U 2.60 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

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 M18ME-UAC48B-BP01,5-GS04-003 Order Code: BAW003T



Material

Cable shield y

Housing material Brass, nickel-plated

Material jacketPURMaterial sensing surfacePBT

Mechanical data

DimensionØ 18 x 36 mmInstallationfor flush mountingMounting length30.0 mmSizeM18x1Tightening torque25 Nm

Range/Distance

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

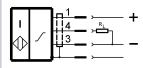
For more information about MTTF and B10d see MTTF / B10d Certificate

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

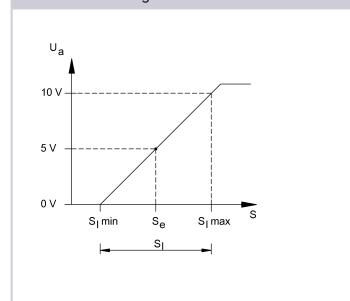


Wiring Diagrams





Technical Drawings



Subject to change without notice: 278062