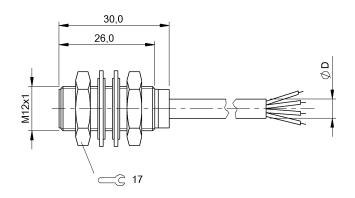
BAW M12ME-UAD50B-BP01

Order Code: BAW0011







Basic features

Approval/Conformity CE UKCA cULus EAC WEEE

Basic standard IEC 60947-5-2 IEC 60947-5-7

Display/Operation

Power indicator

Electrical connection

Cable diameter D 4.60 mm Cable length L 1 m 0.25 mm² Conductor cross-section

Connection type Cable, 1.00 m, PUR

Number of conductors 4 Polarity reversal protected yes Protection against device mix-ups Short-circuit protection ves

Electrical data

Limit frequency -3 dB 1000 Hz Load resistance RL min. 2000 Ohm Load resistance RT min. 5000 Ohm No-load current to 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 U 2.50 V/mm Temperature output -9 mV/°C

Environmental conditions

0...60 °C Ambient temperature 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

Analog, temperature

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 M12ME-UAD50B-BP01 Order Code: BAW0011



Material

Housing material Brass, nickel-plated

Material jacketPURMaterial sensing surfacePA 12

Mechanical data

 $\begin{array}{lll} \textbf{Dimension} & \varnothing \ 12 \times 30 \ \text{mm} \\ \textbf{Installation} & \text{quasi-flush} \\ \textbf{Size} & \text{M12x1} \\ \textbf{Tightening torque} & 10 \ \text{Nm} \\ \end{array}$

Range/Distance

Remarks

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

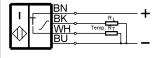
The specified parameters apply to the temperature range of 0...+60 °C. Function is also guaranteed in the ranges -10...0 °C and +60...+70 °C. Scattering (e.g. due to manufacturing tolerances) is described by the tolerance T at Se. This can be approximated using the formula: $T = \frac{1}{2} \left(\frac{1}{$

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.

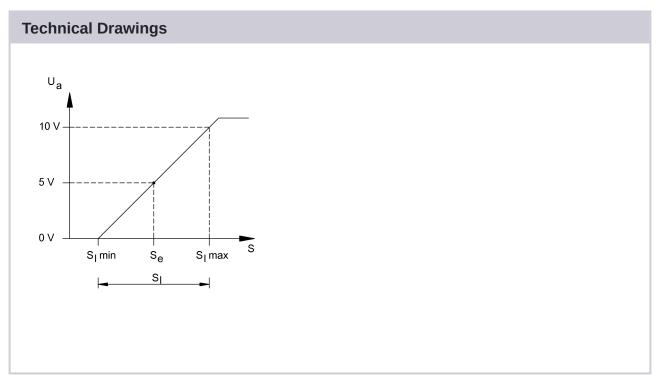
Wiring Diagrams



BAW M12ME-UAD50B-BP01

BALLUFF

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Subject to change without notice: 278744