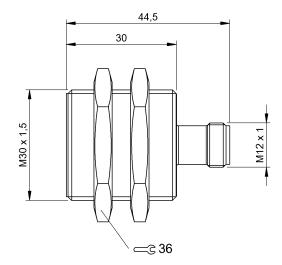
BAW M30EE-ICD10B-S04G-L01 Order Code: BAW005Y

BYLLUFF













Pacia	footuros
Basic	features

Approval/Conformity CE UKCA cULus WEEE Basic standard IEC 60947-5-2 IEC 60947-5-7

Display/Operation

Function indicator no Power indicator no

Electrical connection

M12x1-Male, 3-pin, A-coded Connection 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 Protection class Rated insulation voltage Ui 250 V AC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 15% Slope I 2.00 mA/mm

Environmental conditions

Ambient temperature -10...70 °C Contamination scale 3 EN 60068-2-27. Shock

Half-sinus, 30 g_n, 11 ms

See remarks EN 60068-2-6. Vibration 55 Hz, amplitude 1 mm, 3x30 min

IP rating IP68/IP69K/at the sensing surface

Functional safety

MTTF (40 °C) 325 a

Interface

Analog, current 4...20 mA Analog output falling on approach Output characteristic Output current at SI max. 20 mA

Output current at SI min. 4 mA 12 mA Output current at Se

Material

Subject to change without notice: 278769

Housing material Stainless steel Material sensing surface PEEK

Mechanical data

Dimension Ø 30 x 44.5 mm Installation for flush mounting Mounting length 30.0 mm Size M30x1.5 Tightening torque 100 Nm

Inductive Sensors

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Range/Distance

Linearity range SI 2...10 mm Measuring range 2...10 mm Non-linearity max. ±300 µm Repeat accuracy per BWN ±10 μm Temperature drift max. from end value ±5.0 %

Remarks

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

With connector, e.g. BKS-S 20-... total length = switch length +18 mm.

Shock: Half-sinus, 30 gn, 11 ms, number: 3x12, continuous shock, half-sinus, 100 gn, 2 ms, number: 3x8000.

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

UL-MARKINGS: - For use in NFPA 79 Applications only - Adapters providing field wiring means are available from the manufacturer. Refer to manufacturers information.

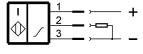
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

Connector Drawings



Wiring Diagrams



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