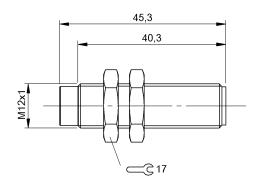
BAW M12ED-UAD40F-S04G

Order Code: BAW0044















Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Rasic standard	IFC 6094

IEC 60947-5-2 Basic standard 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 min. 2000 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 U 3.33 V/mm

Environmental conditions

Ambient temperature -10...85 °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 IP68

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 0 V Output voltage at SI min. 5 V Output voltage at Se

Material

Housing material Stainless steel Material sensing surface PEEK

Mechanical data

Dimension Ø 12 x 45 mm Installation non-flush Mounting length 39.2 mm Size M12x1 12 Nm Tightening torque

Inductive Sensors

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Range/Distance		Non-linearity max.	±90 μm
Linearity range SI	1 4	Repeat accuracy per BWN	±20 μm
	14 mm	Temperature drift max. from end value	±5.0 %

Remarks

Measuring range

Values referenced to standard plate. For other materials correction factors are applied.

1...4 mm

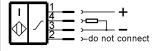
EMC: Severity level acc. to IEC 60947-5-2 is only achieved using shielded connector BKS M415-0000-1-014PS0434-.., shield connected on both ends. Scattering (e.g. due to manufacturing tolerances) is described by the tolerance T at Se. This can be approximated using the formula: T = (slmax + slmin) / 20 = ± 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.

Subject to change without notice: 288445

Wiring Diagrams





Technical Drawings Ua 10 V 5 V SI min Se SI max S SI SI SI