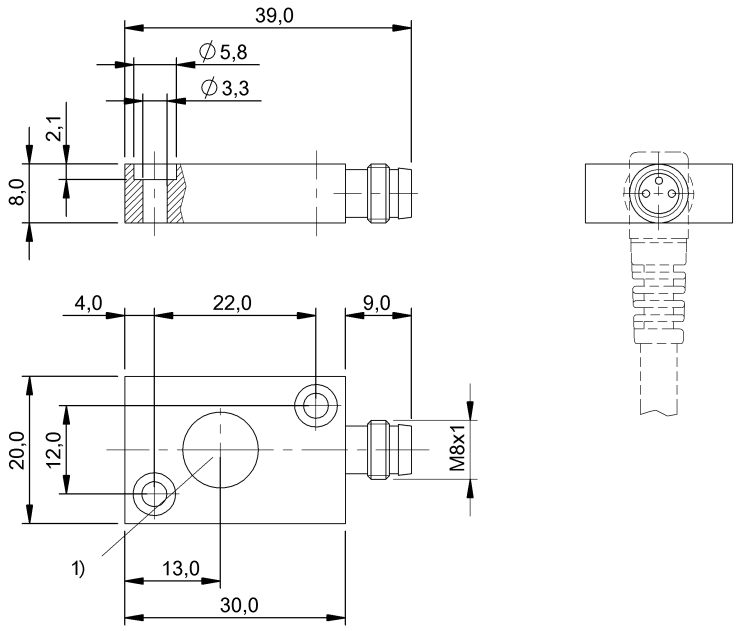
Inductive Sensors

BAW R06AC-UAF20B-S49G
Order Code: BAW0034



1) Sensing surface

Basic features

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

Display/Operation

Power indicator	no

Electrical connection

Connection	M8x1-Male, 3-pin
Polarity reversal protected	no
Protection against device mix-ups	no
Short-circuit protection	no

Electrical data

Limit frequency –3 dB	1000 Hz
Load resistance RL min.	5000 Ohm
No-load current Io max. at Ue	15 mA
Operating voltage Ub	21.6...26.4 VDC
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	24 V
Ripple max. (% of Ue)	10 %
Slope U	6.70 V/mm

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

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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

Material

Housing material	Aluminium, Anodized
Material sensing surface	PBT

Mechanical data

Dimension	30 x 20 x 8 mm
Installation	for flush mounting

Range/Distance

Linearity range SI	0.5...2 mm
Measuring range	0.5...2 mm
Non-linearity max.	±45 µm
Repeat accuracy per BWN	±12 µm
Temperature drift max. from end value	±5.0 %

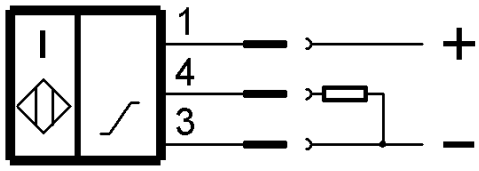
Remarks

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 +10…+60 °C. Function is also guaranteed in the ranges -10…+10 °C and +60…+70 °C.
For more information about MTTF and B10d see MTTF / B10d Certificate

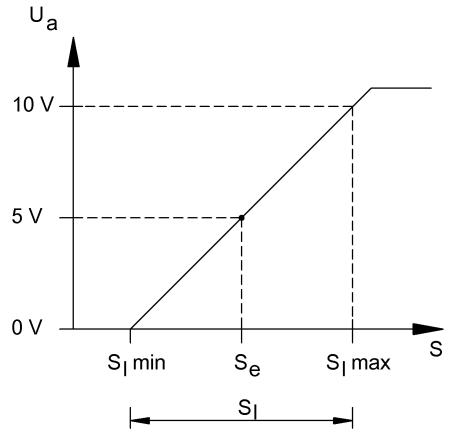
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

Connector Drawings

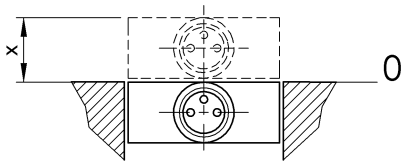
Wiring Diagrams (Schematic)



Technical Drawings



Help Views



Installation X = 0...8.0