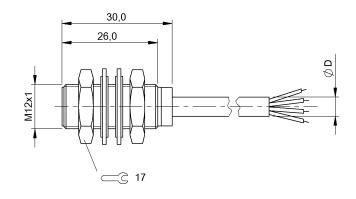
## Inductive Sensors BAW M12ME-UAD50B-BP01 Order Code: BAW0011









CE

no

#### **Basic features**

# Approval/Conformity

Basic standard

UKCA cULus WEEE 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
Conductor cross-section	0.25 mm <sup>2</sup>
Connection type	Cable, 1.00 m, PUR
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

#### **Electrical data**

Limit frequency -3 dB	1000 Hz
Load resistance RL min.	2000 Ohm
Load resistance RT min.	5000 Ohm
No-load current lo max. at Ue	10 mA
Operating voltage Ub	1530 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**

Ambient temperature	060 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 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 010 V
	Analog, temperature
Output characteristic	falling on approach

Output characteristicfalling on approachOutput voltage at SI max.10 VOutput voltage at SI min.0 VOutput voltage at Se5 V

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#### Material

Housing material	Brass, nickel-plated	
Material jacket	PUR	
Material sensing surface	PA 12	
Mechanical data		
Dimension	Ø 12 x 30 mm	
Installation	quasi-flush	
Size	M12x1	
Tightening torque	10 Nm	

## **Range/Distance**

Linearity range SI	15 mm
Measuring range	15 mm
Non-linearity max.	±160 μm
Repeat accuracy per BWN	±10 μm
Temperature drift max. from end	±5.0 %
value	

#### Remarks

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

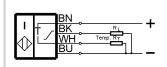
The specified parameters apply to the temperature range of 0...+60 °C. Function is also guaranteed in the ranges -10...0 °C and +60...+70 °C. Scattering (e.g. due to manufacturing tolerances) is described by the tolerance T at Se. This can be approximated using the formula: T = (slmax + slmin) /  $20 = \pm xx$  mm.

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**



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# Technical Drawings

