

### Basic features

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

### Display/Operation

Function indicator	Adjustment indicator
Power indicator	no

### Electrical connection

Cable diameter D	4.70 mm
Cable length L	0.2 m
Connection	M12x1-Male, 3-pin, A-coded
Connection type	Cable with connector, 0.20 m, PUR
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

Limit frequency -3 dB	500 Hz
Load resistance $R_L$ min.	2000 Ohm
No-load current $I_o$ max. at $U_e$	10 mA
Operating voltage $U_b$	15...30 VDC
Protection class	II
Rated insulation voltage $U_i$	250 V AC
Rated operating voltage $U_e$ DC	24 V
Ripple max. (% of $U_e$ )	15 %
Slope U	3.30 V/mm

### Environmental conditions

Ambient temperature	-10...70 °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
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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

Inductive Sensors  
**BAW M12MF2-UAC40F-BP00,2-GS04**  
**Order Code: BAW0014**



**Material**

Housing material	Brass, nickel-plated
Material jacket	PUR
Material sensing surface	PBT

**Range/Distance**

Linearity range SI	1...4 mm
Measuring range	1...4 mm
Non-linearity max.	±90 µm
Repeat accuracy per BWN	±10 µm
Temperature drift max. from end value	±5.0 %

**Mechanical data**

Dimension	Ø 12 x 65 mm
Installation	non-flush
Size	M12x1
Tightening torque	15 Nm

**Remarks**

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

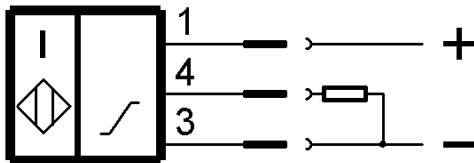
For more information about MTTf and B10d see MTTf / B10d Certificate

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**



Technical Drawings

