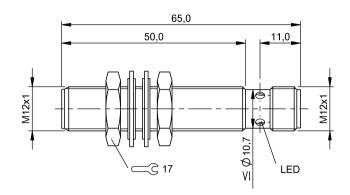
# BAW M12MI-UAC20B-S04G

Order Code: BAW001P















# **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**

Connection M12x1-Male, 3-pin, A-coded 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 15...30 VDC Operating voltage Ub Protection class Ш Rated insulation voltage Ui 250 V AC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 15 % Slope U 6.70 V/mm

# **Environmental conditions**

Ambient temperature -10...70 °C Contamination scale

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

IP67 IP rating

# **Functional safety**

MTTF (40 °C) 640 a

#### Material

Housing material Brass, nickel plated Material sensing surface PBT

#### Mechanical data

Dimension Ø 12 x 65 mm Installation for flush mounting Size M12x1 **Tightening torque** 15 Nm

# Output/Interface

**Analog output** Analog, voltage 0...10 V Output characteristic falling on approach 10 V Output voltage at SI max. Output voltage at SI min. 0 V Output voltage at Se 5 V

# **Inductive Sensors**

# BAW M12MI-UAC20B-S04G Order Code: BAW001P



Range/Distance

Linearity range SI 0.5...2 mm

Measuring range 0.5...2 mm

 $\begin{array}{ll} \mbox{Non-linearity max.} & \pm 45 \ \mu m \\ \mbox{Repeat accuracy per BWN} & \pm 8 \ \mu m \\ \mbox{Temperature drift max. from end} & \pm 5.0 \ \% \end{array}$ 

# Remarks

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

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

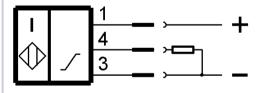
Indication of the MTTF- / B10d value does not represent a binding composition and/or life expectancy assurance; these are simply experiential values with no warranty implications. These declared values also do not extend the expiration period for defect claims or affect it in any way.

value

# **Connector Drawings**



# **Wiring Diagrams**



**Inductive Sensors** 

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