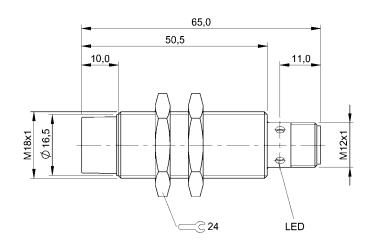
# BAW M18MG-UAC80F-S04G

Order Code: BAW002C















Ra	eic	features
Dd	SIC	reatures

Approval/Conformity CE
UKCA
cULus
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 Rated insulation voltage Ui 250 V AC Rated operating voltage Ue DC 24 V Ripple max. (% of Ue) 15% Slope U 1.70 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

#### 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 materialBrass, nickel-platedMaterial sensing surfacePBT

#### Mechanical data

 Dimension
 Ø 18 x 65 mm

 Installation
 non-flush

 Mounting length
 40.5 mm

 Size
 M18x1

 Tightening torque
 35 Nm

#### **Inductive Sensors**

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Range/Distance

Linearity range SI 2...8 mm Measuring range 2...8 mm Non-linearity max. ±180 µm Repeat accuracy per BWN  $\pm 12~\mu m$ Temperature drift max. from end value ±5.0 %

#### 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.

Scattering (e.g. due to manufacturing tolerances) is described by the tolerance T at Se. This can be approximated using the formula:  $T = \frac{s + s - t}{20}$ = ± xx mm.

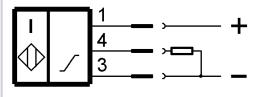
For more information about MTTF and B10d see MTTF / B10d Certificate

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.

### **Connector Drawings**



## Wiring Diagrams



Subject to change without notice: 278067



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