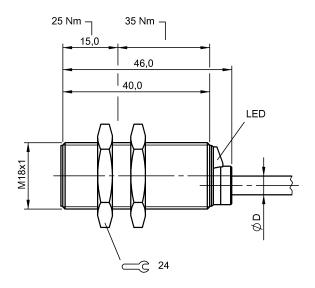
# BES M18MG-USC70B-BV03 **Order Code: BES0074**









#### **Basic features**

Approval/Conformity CE cULus EAC

WEEE

IEC 60947-5-2 Basic standard Global Trademark

## Display/Operation

**Function indicator** yes Power indicator no

#### **Electrical connection**

Cable diameter D 4.60 mm Cable length L 3 m Conductor cross-section 0.34 mm<sup>2</sup>

Cable, 3.00 m, PVC Connection type

**Number of conductors** 2 Polarity reversal protected yes Protection against device mix-ups yes **Short-circuit protection** yes

#### **Electrical data**

Load capacitance max. at Ue  $1 \, \mu F$ Min. operating current Im 5 mA 10...36 VDC Operating voltage Ub 75 V DC Rated insulation voltage Ui Rated operating current le 100 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 50 ms Residual current Ir max. 600 μΑ Ripple max. (% of Ue) 15 % Switching frequency 600 Hz DC -13 **Utilization category** Voltage drop static max. 5.3 V

## **Environmental conditions**

Ambient temperature -25...70 °C Contamination scale

EN 60068-2-27, Shock Half-sinus, 30 gn, 11 ms

EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min

Protection degree IP67

## **Functional safety**

MTTF (40 °C) 315 a

#### Material

Housing material Brass Material jacket PVC Material sensing surface PA 12

Surface protection Nickel-free coated

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#### Mechanical data

DimensionØ 18 x 46 mmInstallationfor flush mountingSizeM18x1Tightening torque25 Nm

### Output/Interface

Switching output non-polarized normally open (NO)

## Range/Distance

Assured operating distance Sa 5.6 mm Hysteresis H max. (% of Sr) 20.0 % Rated operating distance Sn 7 mm Real switching distance sr 7 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

#### Remarks

Specify maximum attainable switching frequency (not per IEC 60947-5-2)

The sensor is functional again after the overload has been eliminated.

Flush: See installation instructions for inductive sensors with extended range 825357.

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**

