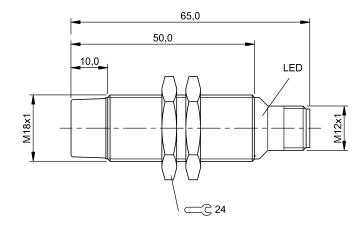
# BES M18MG-POC16F-S04K

**Order Code: BES006W** 















#### **Basic features**

Approval/Conformity CE cULus EAC WEEE

IEC 60947-5-2 Basic standard Trademark Global

#### Display/Operation

**Function indicator** yes Power indicator no

#### **Electrical connection**

Short-circuit protection

Connection M12x1-Male, 4-pin, A-coded Polarity reversal protected yes Protection against device mix-ups

yes

#### **Electrical data**

Load capacitance max. at Ue  $0.5~\mu\text{F}$ Min. operating current Im 0 mA No-load current lo max., damped 3 mA No-load current lo max., undamped 10 mA Operating voltage Ub 10...30 VDC Output resistance Ra 33.0 kOhm + D **Protection class** Ш Rated insulation voltage Ui 250 V AC Rated operating current le 200 mA Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 20 ms Residual current Ir max. 10 μΑ

Ripple max. (% of Ue) 15 % Switching frequency 800 Hz **Utilization category** DC -13 2.5 V Voltage drop static max.

#### **Environmental conditions**

-25...70 °C Ambient temperature 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**

Switching output PNP normally closed (NC)

#### **Inductive Sensors**

## BES M18MG-POC16F-S04K Order Code: BES006W



#### Material

Housing material Brass, Nickel-free coated

Material sensing surface PBT

### Mechanical data

 Dimension
 Ø 18 x 65 mm

 Installation
 non-flush

 Size
 M18x1

 Tightening torque
 25 Nm

#### Range/Distance

Assured operating distance Sa 13 mm Hysteresis H max. (% of Sr) 20.0 % Rated operating distance Sn 16 mm Real switching distance sr 16 mm Repeat accuracy max. (% of Sr) 5.0 % Switching distance marking Temperature drift max. (% of Sr) 10 % **Tolerance Sr** ±10 %

#### Remarks

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

Not for flush mounting: See installation instructions for inductive sensors with extended range 939229.

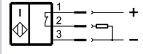
For more information about MTTF and B10d see MTTF / B10d Certificate

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**



2/2