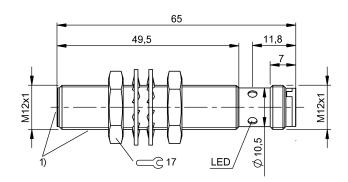
# BES M12EI-PSC40B-S04G-S03

Order Code: BES056A





#### 1) Pressure resistant area



Basic features

Polarity reversal protected Protection against device mix-ups

Short-circuit protection







Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2
Principle of operation	Inductive sensor
Display/Operation	
Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded

yes

yes

#### Electrical data

Load capacitance max. at Ue	1 μF
No-load current lo max., damped	15 mA
No-load current lo max., undamped	10 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Rated insulation voltage Ui	75 V DC
Rated operating current le	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	100 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	500 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

#### **Environmental conditions**

-2570 °C
3
Half-sinus, 30 g <sub>n</sub> , 11 ms
55 Hz, amplitude 1 mm, 3x30 min
IP67
330 a

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3 mm

10 %

±15%

#### Interface

Switching output PNP normally open (NO)

#### Material

 Housing material
 Stainless steel, coated, PTFE

 Material sensing surface
 Stainless steel/coated/PTFE

#### Mechanical data

DimensionØ 12 x 65 mmInstallationfor flush mountingMounting length49.50 mmPressure rating max.60 barPressure rating, notePressure-resistant

rigiteiling torque

### Range/Distance

Assured operating distance Sa Hysteresis H max. (% of Sr) Rated operating distance Sn Real switching distance sr Repeat accuracy max. (% of Sr) Switching distance marking Temperature drift max. (% of Sr) Tolerance Sr

15.0 % 4 mm 4 mm 5.0 %

#### Remarks

When installing in non-ferromagnetic metals, the distance x must be considered. This dimension x is described in the document "BES 2SN STEELFACE". Since the nuts supplied are made of non-ferromagnetic metal, the specified dimension x also applies here. Mounting, where the nuts are close to the active surface, is not intended.

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

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 (Schematic)

