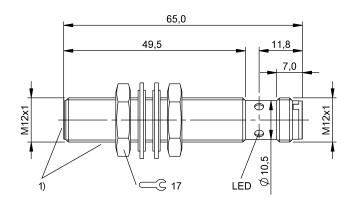
# BES M12EI-PSC40B-S04G-S01

Order Code: BES02NC





### 1) Pressure resistant area



Basic features







Approval/Conformity	CE
	UKCA
	cULus
	WEEE
Basic standard	IEC 60947-5-2

## Display/Operation

Function indicator yes Power indicator

#### Electrical connection

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

### Electrical data

Load capacitance max. at Ue 1μF No-load current lo max., damped 6 mA No-load current lo max., undamped 2 mA Operating voltage Ub 10...30 VDC Output resistance Ra 100.0 kOhm Rated insulation voltage Ui 75 V DC 200 mA Rated operating current le Rated operating voltage Ue DC 24 V Rated short circuit current 100 A Ready delay tv max. 23 ms Residual current Ir max. 10 μΑ Ripple max. (% of Ue) 10 % 500 Hz Switching frequency DC -13 Utilization category Voltage drop static max. 2 V

### **Environmental conditions**

Ambient temperature -25...70 °C Contamination scale EN 60068-2-27, Shock Half-sinus, 30  $g_n$ , 11 ms EN 60068-2-6, Vibration 55 Hz, amplitude 1 mm, 3x30 min IP rating IP67

### **Functional** safety

MTTF (40 °C) 770 a

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±10 %

### Interface

Switching output PNP normally open (NO)

Material

Stainless steel, PTFE coated Housing material Material sensing surface Stainless steel

Mechanical data

Dimension Ø 12 x 65 mm Installation for flush mounting Mounting length 49.50 mm Pressure rating max. 60 bar

Pressure rating, note Pressure-resistant

M12x1 10 Nm ±10 % Tightening 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

3.2 mm 15.0 % 4 mm 4 mm 5.0 % 10 %

#### 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.

Subject to change without notice: 269265

# **Connector Drawings**



### Wiring Diagrams

