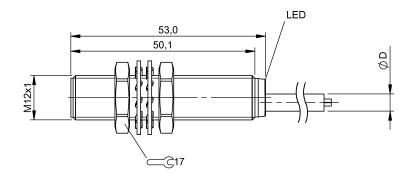
# BES M12MI-PSC40B-BP03

Order Code: BES0062













4.60 mm



#### Basic features

Daoio reatareo		
Approval/Conformity	CE	
	UKCA	
	cULus	
	WEEE	
Basic standard	IEC 60947-5-2	
Trademark	Global	
Display/Operation		
Function indicator	yes	
Power indicator	no	

#### Electrical connection

Cable diameter D

Cable length L	3 m
Conductor cross-section	0.34 mm <sup>2</sup>
Connection type	Cable, 3.00 m, TPU
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

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Load capacitance max. at Ue	1 μF
Min. operating current Im	0 mA
No-load current lo max., damped	5 mA
No-load current lo max., undamped	2 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm + D
Protection class	II
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.	21 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	2500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

voitage arep etatio max	
Environmental conditions	
Ambient temperature	-2570 °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	IP68
Functional safety	
MTTF (40 °C)	640 a
4	
Interface	
Switching output	PNP normally open (NO)

**Inductive Sensors** 

# BES M12MI-PSC40B-BP03 Order Code: BES0062



#### Material

Housing material Brass, Nickel-free coated

TPU Material jacket PBT Material sensing surface

#### Mechanical data

Dimension Ø 12 x 53 mm Installation for flush mounting Mounting length 50.00 mm M12x1 Tightening torque 10 Nm

### 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

10 % ±10 %

3.2 mm

15.0 %

4 mm

4 mm

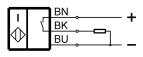
5.0 %

#### Remarks

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.

## Wiring Diagrams (Schematic)



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