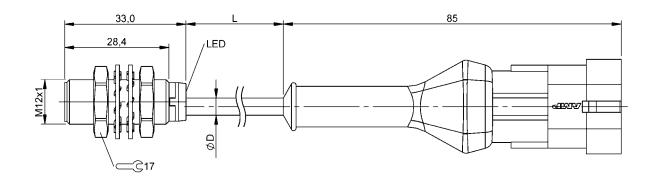
# BES M12MD-PSC40B-BP00,15-Z10

Order Code: BES05YC















Basic featu
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Approval/Conformity	CE	
	UKCA	
	cULus	
	WEEE	
Basic standard	IEC 60947-5-2	
Trademark	Global	
Display/Operation		

#### Display/Operation

Function indicator	yes
Power indicator	no

#### **Electrical connection**

Cable diameter D	4.60 mm
Cable length L	0.15 m
Conductor cross-section	0.34 mm <sup>2</sup>
Connection	AMP SUPERSEAL 3P, 3-pin
Connection type	Cable with connector, 0.15 m, TPU
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

### Electrical data

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	100.0 kOhm
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.	30 μΑ
Ripple max. (% of Ue)	15 %
Switching frequency	2500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

## **Environmental conditions**

MTTF (40 °C)	850 a
Functional safety	
IP rating (connector)	IP67
IP rating	IP68, according to BWN Pr 20
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
Contamination scale	3
Ambient temperature	-2570 °C

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3.2 mm

#### Interface

Switching output PNP normally open (NO)

#### Material

Housing material Brass, Nickel-free coated

Material jacketTPUMaterial sensing surfacePBT

#### Mechanical data

 Mounting length
 27 mm

 Size
 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

15.0 %
4 mm
4 mm
5.0 %
10 %
±10 %

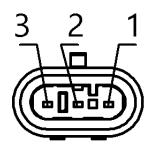
#### Remarks

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.

## **Connector Drawings**



## Wiring Diagrams

