



### Basic features

Approval/Conformity	CE EAC cULus WEEE
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### Electrical connection

Cable diameter D	3.00 mm
Cable length L	3 m
Connection type	Cable, 3.00 m, PVC
Number of conductors	3

### Electrical data

No-load current $I_0$ max., damped	7 mA
No-load current $I_0$ max., undamped	2 mA
Operating voltage $U_b$	10...30 VDC
Output resistance $R_a$	33.0 kOhm
Protection class	II
Rated insulation voltage $U_i$	250 V AC
Ready delay $t_v$ max.	25 ms
Residual current $I_r$ max.	10 $\mu$ A
Ripple max. (% of $U_e$ )	10 %
Switching frequency	5000 Hz

### Environmental conditions

Ambient temperature	-25...70 °C
IP rating	IP68

### Functional safety

MTTF (40 °C)	595 a
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### Interface

Switching output	PNP normally open (NO)
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### Material

Housing material	Brass, Nickel-free coated
Material jacket	PVC
Material sensing surface	PBT

### Mechanical data

Dimension	Ø 8 x 50 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	3 Nm

### Range/Distance

Assured operating distance $S_a$	1.6 mm
Rated operating distance $S_n$	2 mm
Real switching distance $s_r$	2 mm

Inductive Sensors  
**BES M08MI-PSC20B-BV03**  
Order Code: **BES003L**



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

