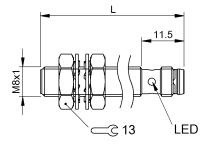
### Inductive Sensors BES M08MI-PSC20B-S49G Ordercode: BES003P

# BALLUFF



# 

-	
DNT. EQ	
2 Type 1 L	

yes no

yes

yes

M8x1-Male, 3-pole

### **Display/Operation**

Function indicator
Power indicator

ndicator

#### Electrical connection

Connection Protection against device mix-ups Short-circuit protection

#### Electrical data

Load capacitance max. at Ue	1 µF
No-load current lo max., undamped	2 mA
No-load current lo max., damped	7 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	33.0 kOhm
Polarity reversal protected	yes
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.	25 ms
Residual current Ir max.	10 µA
Residual ripple max. (% of Ue)	10 %
Switching frequency	5000 Hz
Utilization category	DC-13
Voltage drop static max.	2.5 V

#### Environmental conditions

Ambient temperature Contamination scale EN 60068-2-27, Shock

Internet Balluff Germany Balluff USA Balluff China 3 Half-sinus, 30 gn, 11 ms

-25...70 °C

www.balluff.com +49 (0) 7158 173-0, 173-370 1-800-543-8390 +86 (0) 21-50 644131

EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min IP68	
IP rating	IF00	
Functional safety		
MTTF (40 °C)	595 a	
General data		
Approval/Conformity	EAC cULus CE	
Basic standard Trademark	IEC 60947-5-2 Global	
Material		
Housing material	Brass	
Material sensing surface Surface protection	PBT Nickel-free coated	
Mechanical data		
Dimension	Ø 8 x 60 mm	
Installation	flush	
Size	M8x1	
Tightening torque	3 Nm	
Output/Interface		
Switching output	PNP Normally open (NO)	
Range/Distance		
Assured operating distance Sa	1.6 mm	
Effective operating distance Sr	2 mm	
For definitions of terms, see main catalog Subject to change without notice [246401]	eCl@ss 9.1: 27-27-01-01 ETIM 6.0: EC002714 BES003P_0.36_2017-09-01	1(2)

## Inductive Sensors BES M08MI-PSC20B-S49G Ordercode: BES003P



Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	
Temperature drift max. (% of Sr)	10 %
	10 /0
Tolerance Sr	±10 %

#### Remarks

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

For further information about the 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 view



#### Wiring Diagram

