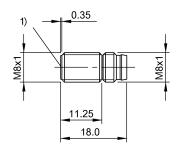
BES M08EA-POD15B-S49G **Order Code: BES0270**

BALLUFF



1) Sensing surface



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Approval/Conformity	CE cULus EAC			
	WEEE			
Basic standard	IEC 60947-5-2			
Display/Operation				
Function indicator	no			
Power indicator	no			
Electrical connection				
Connection	M8x1-Male, 3-pin			
Polarity reversal protected	yes			
Protection against device mix-ups	yes			
Short-circuit protection	yes			

Electrical data

Load capacitance max. at Ue	0.2 μF
Min. operating current Im	1 mA
No-load current lo max., damped	3 mA
No-load current lo max., undamped	9 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open collector
Rated insulation voltage Ui	75 V DC
Rated operating current le	150 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	20 ms
Residual current Ir max.	10 μΑ
Ripple max. (% of Ue)	10 %
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

MTTF (40 °C)	830 a
Functional safety	
Protection degree	IP67
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
Contamination scale	3
Ambient temperature	-2570 °C

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Material

Housing materialStainless steelMaterial sensing surfacePBT

Mechanical data

DimensionØ 8 x 18 mmInstallationfor flush mountingSizeM8x1Tightening torque4 Nm

Output/Interface

Switching output	PNP normally closed (NC)	
Range/Distance		
Assured operating distance Sa	1.2 mm	
Hysteresis H max. (% of Sr)	15.0 %	
Rated operating distance Sn	1.5 mm	
Real switching distance sr	1.5 mm	
Repeat accuracy max. (% of Sr)	5.0 %	
Temperature drift max. (% of Sr)	10 %	
Tolerance Sr	±10 %	

Remarks

For mounting and installation see Accessories section

EMC: EMC protection circuit required, see 825345. IVW: 2.2

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

