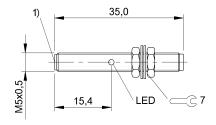
Inductive Sensors BES M05ED-PSC15B-S26G Order Code: BES013A

BALLUFF



1) Sensing surface



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M5x0.5-Male
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	0 mA
No-load current lo max., damped	10 mA
No-load current lo max., undamped	3 mA
Operating voltage Ub	1030 VDC
Output resistance Ra	Open collector
Rated insulation voltage Ui	75 V DC
Rated operating current le	100 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	25 ms
Residual current Ir max.	80 µA
Ripple max. (% of Ue)	10 %
Switching frequency	3000 Hz
Utilization category	DC -13
Voltage drop static max.	3 V

Environmental conditions

Ambient temperature	-2570 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67
Functional safety	
MTTF (40 °C)	830 a
General data	
Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Material	
Housing material	Stainless steel
Material sensing surface	PBT
Mechanical data	
Dimension	Ø 5 x 35 mm
Installation	for flush mounting
Installation	
Size	M5x0.5

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Output/Interface		Range/Distance	
Switching output	PNP normally open (NO)	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 %
		Switching distance marking	
		Temperature drift max. (% of Sr)	10 %
		Tolerance Sr	±10 %

Remarks

EMC: For operating conditions with noise sources

External protection circuit is required. Document 825345.

Flush: See installation instructions for inductive sensors with extended range 825357.

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 Drawings



Wiring Diagrams

