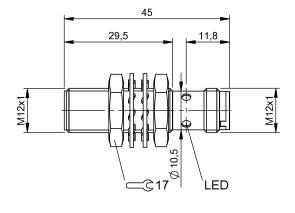
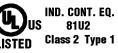
Inductive Sensors BES 516-325-G-E5-C-S4 **Order Code: BES00PY**

BALLUFF









Display/Operation

Function indicator	yes
Power indicator	no
Electrical connection	
Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Land compation of the	1
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	33.0 kOhm + D
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.	10 µA
Ripple max. (% of Ue)	15 %
Switching frequency	2500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 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 mir
IP rating	IP68
Functional safety	
MTTF (40 °C)	640 a
General data	
Approval/Conformity	CE
	cULus
	EAC
	WEEE
Basic standard	IEC 60947-5-2
Material	
Housing material	Brass
Material sensing surface	PBT
Surface protection	Nickel-free coated
Mechanical data	
Dimension	Ø 12 x 45 mm
Installation	for flush mounting
Size	M12x1
Tightening torque	10 Nm
Output/Interface	
Switching output	PNP normally open (NO)

Switching output

PNP normally open (NO)

Inductive Sensors BES 516-325-G-E5-C-S4 Order Code: BES00PY



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Assured operating distance Sa	3.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	4 mm

4 mm	
%	
6	
%	

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 Drawings



Wiring Diagrams

