



Basic features

Basic standard	IEC 60947-5-2
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Display/Operation

Power indicator	no
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Electrical connection

Cable diameter D	3.10 mm
Cable length L	0.32 m
Connection	M8x1-Male, 3-pin
Connection type	Cable with connector, 0.32 m, PUR
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	8 mA
No-load current I _o max., undamped	25 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	2.2 kOhm + D + LED
Rated insulation voltage U _i	75 V DC
Rated operating current I _e	130 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	10 ms
Residual current I _r max.	80 µA
Ripple max. (% of U _e)	10 %
Switching frequency	800 Hz
Utilization category	DC -13
Voltage drop static max.	3.5 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g _n , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating	IP67

Functional safety

MTTF (40 °C)	860 a
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Interface

Switching output	PNP normally closed (NC)
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Inductive Sensors
BES 516-3013-G-SA2-S49-00,32
Order Code: BES0347



Material

Housing material	Stainless steel
Material jacket	PUR
Material sensing surface	PA 12

Mechanical data

Dimension	Ø 8 x 35.5 mm
Installation	for flush mounting
Size	D8.0

Range/Distance

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	2 mm
Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Connector Drawings



Wiring Diagrams

