



Basic features

Approval/Conformity	CE UKCA cULus WEEE
Basic standard	IEC 60947-5-2

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	1 μ F
Min. operating current I _m	5 mA
Operating voltage U _b	10...55 VDC
Protection class	II
Rated insulation voltage U _i	250 V AC
Rated operating current I _e	200 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.	500 μ A
Ripple max. (% of U _e)	15 %
Switching frequency	2500 Hz
Utilization category	DC -13
Voltage drop static max.	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	IP68

Functional safety

MTTF (40 °C)	610 a
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Interface

Switching output	Non-polarized normally open (NO)
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Material

Housing material	Stainless steel
Material sensing surface	PA 12

Mechanical data

Dimension	\varnothing 12 x 70 mm
Installation	for flush mounting
Size	M12x1
Tightening torque	20 Nm

Inductive Sensors
BES 516-542-S4-H
Order Code: **BES03P3**

BALLUFF

Range/Distance

Assured operating distance Sa	1.6 mm
Hysteresis H max. (% of Sr)	20.0 %
Rated operating distance Sn	2 mm

Real switching distance sr	2 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Connector Drawings



Wiring Diagrams

