



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	4.60 mm
Cable length L	3 m
Conductor cross-section	0.25 mm ²
Connection type	Cable, 3.00 m, PUR
Number of conductors	4
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	0.5 μF
Min. operating current I _m	0 mA
No-load current I _o max., damped	32 mA
No-load current I _o max., undamped	20 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	1.8 kOhm + D + LED/4.7 kOhm + D
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.	30 ms
Residual current I _r max.	80 μA
Ripple max. (% of U _e)	15 %
Switching frequency	400 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...70 °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	IP68

Inductive Sensors
BES 516-122-BO-C-PU-03
Order Code: BES016M

BALLUFF

General data

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

Material

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

Mechanical data

Dimension	Ø 12 x 60 mm
Installation	non-flush
Size	M12x1
Tightening torque	20 Nm

Remarks

The sensor is functional again after the overload has been eliminated.

Output/Interface

Switching output	NPN normally open/normally closed (NO/NC)
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Range/Distance

Assured operating distance Sa	3.2 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	4 mm
Real switching distance sr	4 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Wiring Diagrams

