



Basic features

Approval/Conformity	CE EAC WEEE
Basic standard	IEC 60947-5-6

Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Cable diameter D	3.40 mm
Cable length L	3 m
Conductor cross-section	0.14 mm ²
Connection type	Cable, 3.00 m, PVC
Number of conductors	2
Polarity reversal protected	to 9 V

Electrical data

Current consumption max., damped	4 mA
Current consumption min., undamped	6 mA
Internal capacitance Ci max.	30 nF
Internal inductance Li max.	1 nH
Operating voltage Ub	7.7...9 VDC
Permiss. series resistance Rv	550...1100 Ohms
Rated insulation voltage Ui	75 V DC
Rated operating voltage Ue DC	8.2 V
Rated series resistance Rv	1000 Ohm
Ready delay tv max.	10 ms
Ripple max. (% of Ue)	10 %
Switching frequency	2000 Hz
Utilization category	DC -13

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	IP67

Functional safety

MTTF (40 °C)	9720 a
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Material

Housing material	Stainless steel
Material jacket	PVC
Material sensing surface	PBT

Inductive Sensors
BES 516-3005-FO-N-03
Order Code: BES02L6

BALLUFF

Mechanical data

Dimension	Ø 5 x 24.5 mm
Installation	for flush mounting
Size	M5x0.5
Tightening torque	0.5 Nm

Output/Interface

Interface	NAMUR
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Range/Distance

Assured operating distance Sa	0.65 mm
Rated operating distance Sn	0.8 mm
Real switching distance sr	0.8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

Effective operating distance measured at 1.55 mA.
Operate only with suitable approved switching amplifier.
For more information about 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.

Wiring Diagrams

