



**Basic features**

<b>Approval/Conformity</b>	CE EAC WEEE
<b>Basic standard</b>	IEC 60947-5-2

**Display/Operation**

<b>Function indicator</b>	yes
<b>Power indicator</b>	yes

**Electrical connection**

<b>Polarity reversal protected</b>	yes
<b>Protection against device mix-ups</b>	yes
<b>Short-circuit protection</b>	yes

**Electrical data**

<b>Load capacitance max. at Ue</b>	1 µF
<b>Min. operating current I<sub>m</sub></b>	0 mA
<b>No-load current I<sub>o</sub> max., damped</b>	20 mA
<b>No-load current I<sub>o</sub> max., undamped</b>	15 mA
<b>Operating voltage U<sub>b</sub></b>	10...55 VDC
<b>Output resistance R<sub>a</sub></b>	33.0 kOhm + D
<b>Protection class</b>	II
<b>Rated insulation voltage U<sub>i</sub></b>	250 V AC
<b>Rated operating current I<sub>e</sub></b>	200 mA
<b>Rated operating voltage U<sub>e</sub> DC</b>	24 V
<b>Rated short circuit current</b>	100 A
<b>Ready delay t<sub>v</sub> max.</b>	30 ms
<b>Residual current I<sub>r</sub> max.</b>	80 µA
<b>Ripple max. (% of U<sub>e</sub>)</b>	15 %
<b>Switching frequency</b>	100 Hz
<b>Utilization category</b>	DC -13
<b>Voltage drop static max.</b>	2.5 V

Inductive Sensors  
**BES 517-132-M3-H**  
Order Code: BES0201

**BALLUFF**

**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
Protection degree	IP67

**Functional safety**

MTTF (40 °C)	730 a
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**Material**

Housing material	PBT
Material sensing surface	PBT

**Mechanical data**

Connection cross-section	2.5 mm <sup>2</sup>
Dimension	120 x 40 x 40 mm
Installation	for flush mounting
Size	40x40
Tightening torque	4...5 Nm (M20x1.5)
Tightening torque clamping screw	0.8 Nm

**Output/Interface**

Cable fitting, thread size	M20x1.5
Switching output	PNP normally open/normally closed (NO/NC)

**Range/Distance**

Assured operating distance Sa	12 mm
Hysteresis H max. (% of Sr)	20.0 %
Rated operating distance Sn	15 mm
Real switching distance sr	15 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

**Remarks**

LED 1: Function

LED 2: Operating voltage

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

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**

