



1) LED function indicator, 2) LED operating voltage



Basic features

Additional features	Sensitivity adjustable can be arranged inline Stackable, minimum distance ≥ 20 mm
Approval/Conformity	CE WEEE
Basic standard	IEC 60947-5-2
Target material	Steel

Display/Operation

Function indicator	yes
Power indicator	yes

Electrical connection

Connection	M12x1-Male, 4-pin, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U_e	0.15 μ F
Min. operating current I_m	0 mA
No-load current I_o max., damped	10 mA
No-load current I_o max., undamped	10 mA
Operating voltage U_b	10...30 VDC
Output resistance R_a	Open collector
Pass-through speed max.	60 m/s
Pulse lengthening	60 ms
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	400 mA
Rated operating voltage U_e DC	24 V
Ready delay t_v max.	300 ms
Ripple max. (% of U_e)	15 %
Switching frequency	16 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

Inductive Sensors
BES IKVS-015.23-G-S4
Order Code: **BES03JC**

BALLUFF

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, 1x5 min
IP rating	IP65

Functional safety

MTTF (40 °C)	1645 a
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Interface

Switching output	PNP normally open (NO)
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Material

Housing material	Plastic
Material sensing surface	Plastic

Mechanical data

Dimension	60 x 35 x 20 mm
Pass-through	15.1 mm
Target size min.	Ball D = 3 mm

Remarks

After eliminating the overload, the sensor is functional again after a load-dependent delay time of 5-30 s.

Sensitivity adjustable

Static detection of metallic parts

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.

Connector Drawings



Wiring Diagrams

