



1) LED function indicator, 2) LED operating voltage



**Basic features**

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

**Display/Operation**

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

**Electrical connection**

<b>Connection</b>	M12x1-Male, 4-pin, A-coded
<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 <math>U_e</math></b>	0.15 $\mu$ F
<b>Min. operating current <math>I_m</math></b>	0 mA
<b>No-load current <math>I_o</math> max., damped</b>	10 mA
<b>No-load current <math>I_o</math> max., undamped</b>	10 mA
<b>Operating voltage <math>U_b</math></b>	10...30 VDC
<b>Output resistance <math>R_a</math></b>	Open collector
<b>Pass-through speed max.</b>	60 m/s
<b>Pulse lengthening</b>	60 ms
<b>Rated insulation voltage <math>U_i</math></b>	75 V DC
<b>Rated operating current <math>I_e</math></b>	400 mA
<b>Rated operating voltage <math>U_e</math> DC</b>	24 V
<b>Ready delay <math>t_v</math> max.</b>	300 ms
<b>Ripple max. (% of <math>U_e</math>)</b>	15 %
<b>Switching frequency</b>	16 Hz
<b>Utilization category</b>	DC -13
<b>Voltage drop static max.</b>	2 V

Inductive Sensors  
**BES IKVS-025.23-G-S4**  
Order Code: BES03JH



Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 g <sub>n</sub> , 11 ms
EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 1x5 min
IP rating	IP65

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	25.1 mm
Target size min.	Ball D = 4 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

Connector Drawings



Wiring Diagrams (Schematic)

