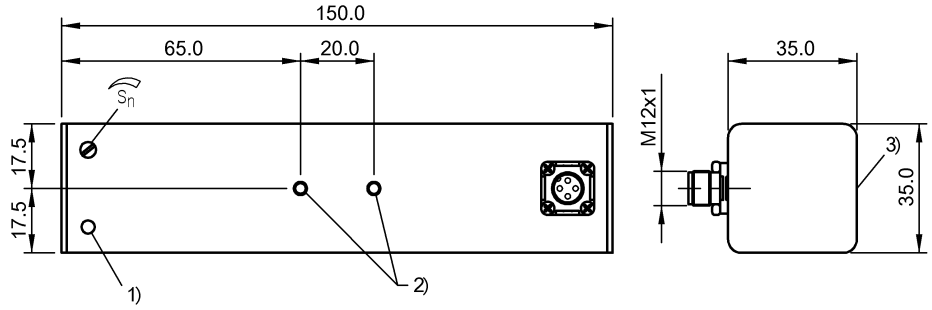
Inductive Sensors

BES IKU-015-23-G-S4
Order Code: BES02TH



1) LED function indicator, 2) M5x15 mounting post, 3) Sensing surface

Basic features

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

Display/Operation

Function indicator	yes
Power indicator	no

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 Ue	0.15 µF
Min. operating current Im	0 mA
No-load current Io max., damped	20 mA
No-load current Io max., undamped	20 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	Open collector
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	400 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ripple max. (% of Ue)	15 %
Switching frequency	50 Hz
Utilization category	DC -13
Voltage drop static max.	2 V

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, 3x30 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	150 x 35 x 35 mm
Installation	non-flush
Size	150x35x35
Tightening torque	3 Nm

Range/Distance

Assured operating distance Sa	24 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	30 mm
Real switching distance sr	30 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Connector Drawings



Wiring Diagrams

