



1) Sensing surface



Basic features

Approval/Conformity	CE 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 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
Rated insulation voltage U_i	75 V DC
Rated operating current I_e	400 mA
Rated operating voltage U_e DC	24 V
Rated short circuit current	100 A
Ripple max. (% of U_e)	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/normally closed (NO/NC)
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Inductive Sensors
BES IKU-021.28-G-S4
Order Code: BES02TL



Material

Housing material	Plastic
Material sensing surface	Plastic

Mechanical data

Dimension	200 x 35 x 35 mm
Installation	non-flush
Size	200x35x35

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 %

Remarks

Sn value referenced to test plate made of steel St37 200 mm x 50 mm.
 After eliminating the overload, the sensor is functional again after a load-dependent delay time of 5-30 s.

Connector Drawings



Wiring Diagrams

