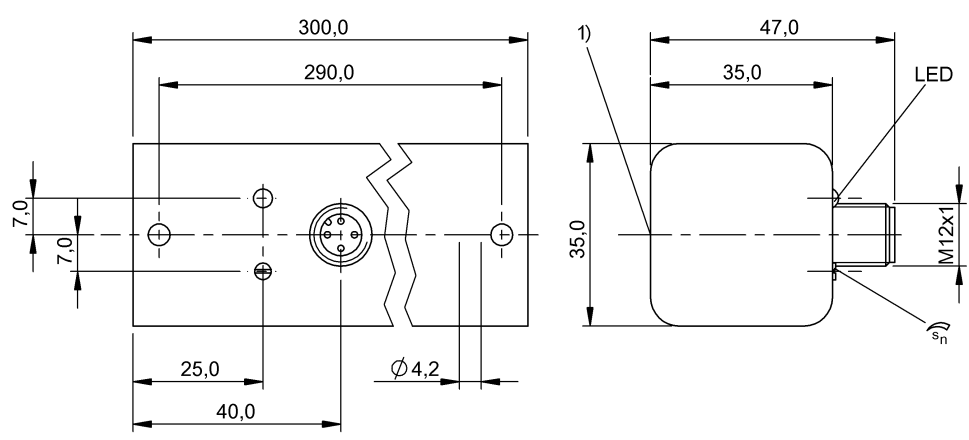


Inductive Sensors
BES IKU-031.28-S4
Order Code: BES02TN



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	no
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	0.15 µF
Min. operating current I _m	1 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	200 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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Material

Housing material	Plastic
Material sensing surface	Plastic

Mechanical data

Dimension	300 x 35 x 47 mm
Installation	non-flush
Size	300x35x47

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

With connector, e.g. BKS-S 20-... total length = switch length +18 mm.

Connector Drawings



Wiring Diagrams

