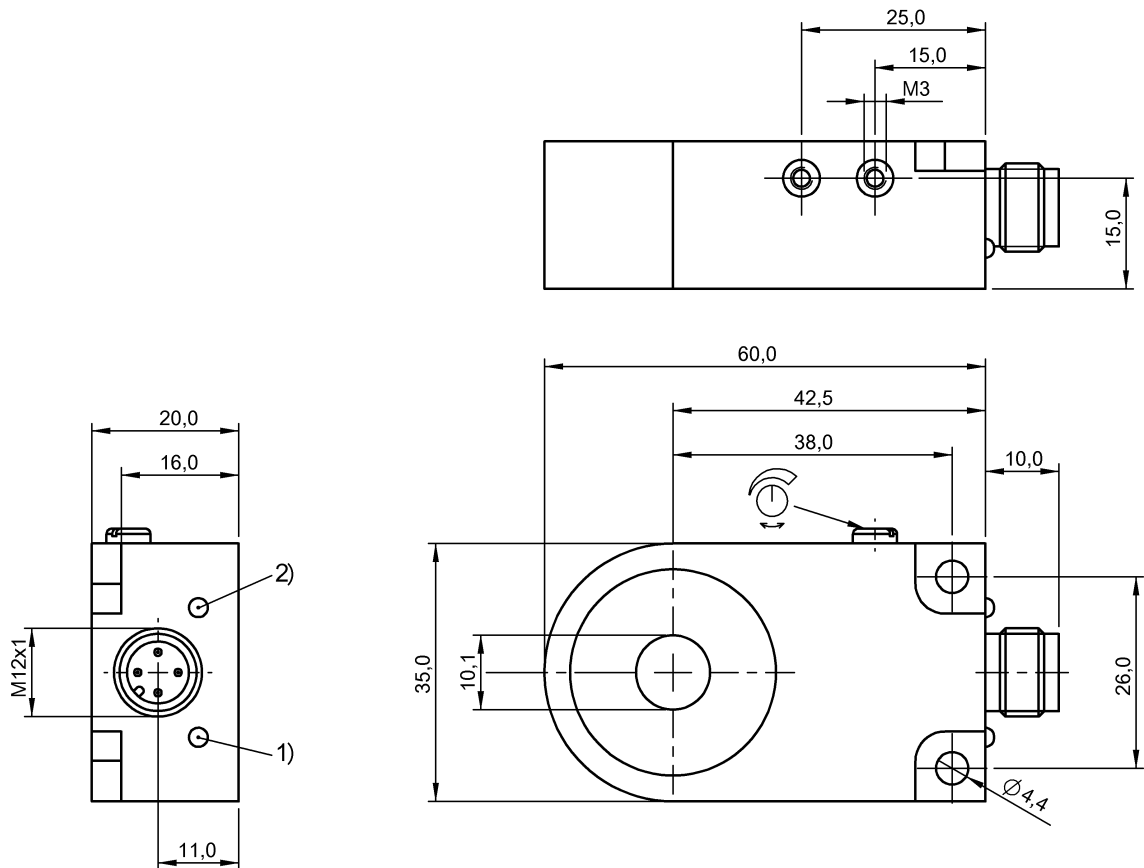




1) LED function indicator, 2) LED operating voltage



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

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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

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	10.1 mm
Target size min.	Ball D = 2 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)

