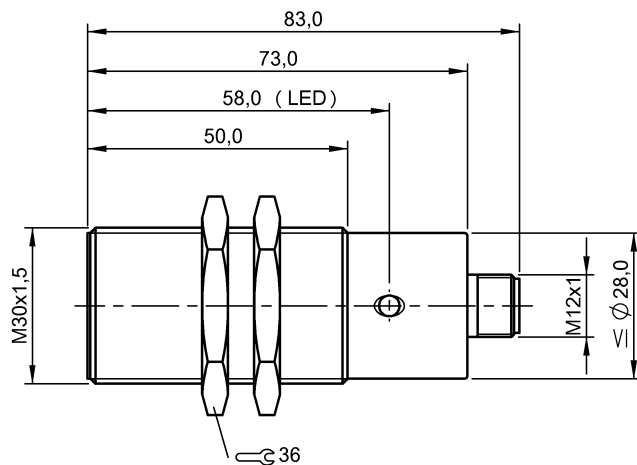




Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Male, 4-pole, A-coded
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at Ue	1 µF
No-load current Io max., damped	12 mA
No-load current Io max., undamped	25 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	2.2 kOhm + D + LED
Protection class	II
Rated insulation voltage Ui	250 V AC
Rated operating current Ie	200 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	30 ms
Residual current Ir max.	80 µA
Ripple max. (% of Ue)	15 %
Switching frequency	300 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
EN 60068-2-27, Shock	Half-sinus, 30 gn, 11 ms

EN 60068-2-6, Vibration

55 Hz, amplitude 1 mm, 3x30 min
IP68

IP rating

General data

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

Material

Housing material	Brass
Material sensing surface	PA 12
Surface protection	nickel plated

Mechanical data

Dimension	Ø 30 x 83 mm
Installation	for flush mounting
Size	M30x1.5
Tightening torque	35 Nm

Output/Interface

Switching output	PNP normally closed (NC)
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Range/Distance

Assured operating distance Sao	8.1 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	10 mm
Real switching distance sr	10 mm
Repeat accuracy max. (% of Sr)	5.0 %
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Remarks

The sensor is functional again after the overload has been eliminated.

Connector view



Wiring Diagram

