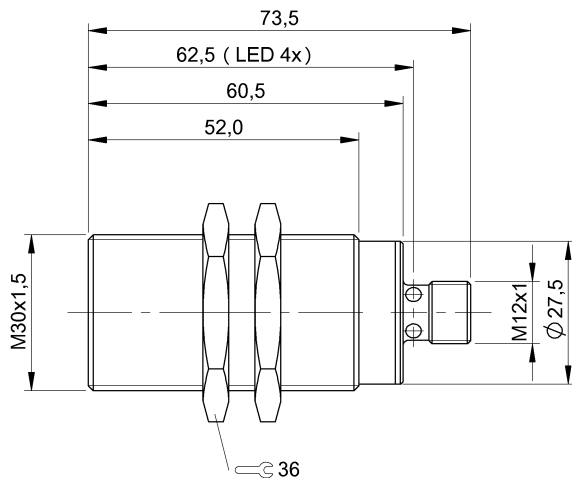




Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

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

Electrical data

Contamination scale	3
Load capacitance max. at Ue	1 µF
No-load current I ₀ undamped max.	10 mA
Operating voltage U _B	10...30 VDC
Output resistance R _a	47.0 kΩ
Polarity reversal protected	yes
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
Ready delay t _v max.	200 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	100 µA
Residual ripple max. (% of U _e)	20 %
Switching frequency	200 Hz
Utilization category	DC-13
Voltage drop static max.	2 V

Environmental conditions

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

EN 60068-2-6, Vibration	55 Hz, amplitude 1 mm, 3x30 min
IP rating per IEC 60529	IP67

Functional safety

MTTF (40 °C)	390 a
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General data

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

Material

Housing material	Brass
Material sensing surface	PBT
Surface protection	chrome plated

Mechanical data

Dimension	Ø 30 x 73.5 mm
Installation	quasi-flush
Size	M30x1.5
Tightening torque	70 Nm

Output/Interface

Switching output	PNP Normally open (NO)
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Range/Distance

Assured operating distance S _a	17.6 mm
Effective operating distance S _r	22 mm
Hysteresis H max. (% of S _r)	10.0 %

Inductive Sensors
BES M30MI1-PSC22B-S04G
Ordercode: BES02YM

BALLUFF

Rated operating distance S_n	22 mm
Switching distance marking	■■■
Temperature drift max. (% of S_r)	10 %

Remarks

The sensor is functional again after the overload has been eliminated.
Quasi-shielded: See installation instructions for inductive sensors with extended range 825356.

For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

Connector view



Wiring Diagram

