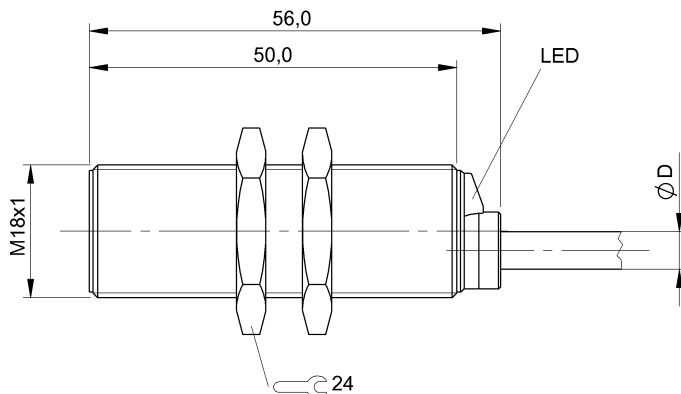




Basic features

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

Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Cable diameter D	4.60 mm
Cable length L	2 m
Conductor cross-section	0.34 mm ²
Connection type	Cable, 2.00 m, PVC
Number of conductors	3
Polarity reversal protected	yes
Protection against device mix-ups	yes
Short-circuit protection	yes

Electrical data

Load capacitance max. at U _e	1 µF
Min. operating current I _m	0 mA
No-load current I _o max., damped	6 mA
No-load current I _o max., undamped	15 mA
Operating voltage U _b	12...30 VDC
Output resistance R _a	3.3 kOhm + D + LED
Protection class	II
Rated insulation voltage U _i	250 V AC
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.	45 ms
Residual current I _r max.	20 µA
Ripple max. (% of U _e)	15 %
Switching frequency	700 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	30 gn, 11 ms, 3x12 shocks
EN 60068-2-6, Vibration	10...2000 Hz, 1 mm, 30 gn, 3x5 h
Protection degree	IP67

Material

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

Inductive Sensors
BES M18MI-NOC50B-BV02
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BALLUFF

Mechanical data

Dimension	Ø 18 x 56 mm
Installation	for flush mounting
Size	M18x1
Tightening torque	35 Nm

Output/Interface

Switching output	NPN normally closed (NC)
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Range/Distance

Assured operating distance Sa	4 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	5 mm
Real switching distance sr	5 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.

Wiring Diagrams

