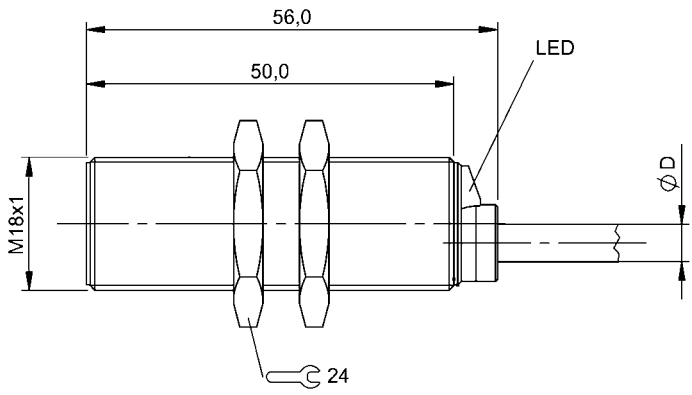


Inductive Sensors
BES M18MI-POC80B-BV03
Order Code: BES04U5



Basic features

Trademark	Global
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Display/Operation

Power indicator	no
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Electrical connection

Cable diameter D	4.60 mm
Cable length L	3 m
Conductor cross-section	0.34 mm ²
Connection type	Cable, 3.00 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	8 mA
No-load current I _o max., undamped	15 mA
Operating voltage U _b	12...30 VDC
Output resistance R _a	33.0 kOhm + D
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.	30 ms
Residual current I _r max.	20 µA
Ripple max. (% of U _e)	15 %
Switching frequency	150 Hz
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
IP rating	IP68

Functional safety

MTTF (40 °C)	465 a
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Interface

Switching output	PNP normally closed (NC)
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Material

Housing material	Brass, nickel-plated
Material jacket	PVC
Material sensing surface	PA 12

Mechanical data

Dimension	Ø 18 x 56 mm
Installation	for flush mounting
Mounting length	50.00 mm
Size	M18x1

Range/Distance

Assured operating distance Sa	6.4 mm
Hysteresis H max. (% of Sr)	15.0 %
Rated operating distance Sn	8 mm
Real switching distance sr	8 mm
Repeat accuracy max. (% of Sr)	5.0 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %
Tolerance Sr	±10 %

Wiring Diagrams

