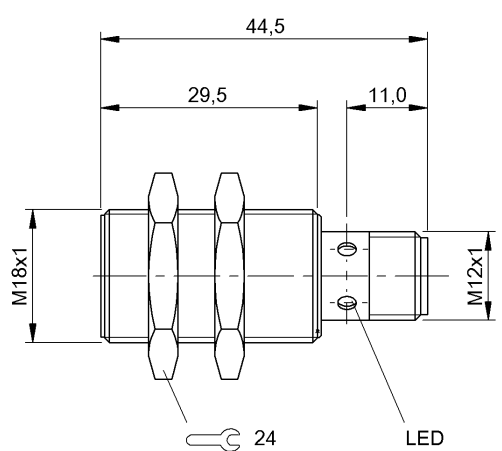


Inductive Sensors
BES M18ME-PSC80B-S04G-003
Order Code: BES00EZ



Basic features

Trademark	Global
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Display/Operation

Power indicator	no
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Electrical connection

Connection	M12x1-Male, 3-pin, 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
Min. operating current Im	0 mA
No-load current Io max., damped	25 mA
No-load current Io max., undamped	12 mA
Operating voltage Ub	10...30 VDC
Output resistance Ra	2.0 kOhm + D + LED
Protection class	II
Rated insulation voltage Ui	75 V DC
Rated operating current Ie	130 mA
Rated operating voltage Ue DC	24 V
Rated short circuit current	100 A
Ready delay tv max.	10 ms
Residual current Ir max.	80 µA
Ripple max. (% of Ue)	15 %
Switching frequency	150 Hz
Voltage drop static max.	3.8 V

Environmental conditions

Ambient temperature	-25...70 °C
Contamination scale	3
IP rating	IP67

Functional safety

MTTF (40 °C)	1620 a
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Interface

Switching output	PNP normally open (NO)
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Material

Housing material	Brass, nickel-plated
Material sensing surface	PBT

Mechanical data

Dimension	Ø 18 x 44.5 mm
Installation	for flush mounting
Mounting length	29.50 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 %

Connector Drawings



Wiring Diagrams

