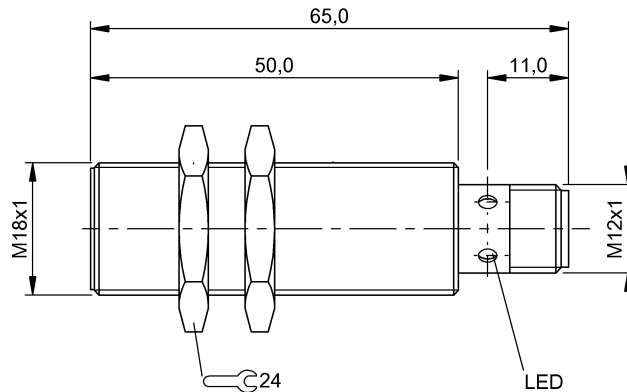


BES M18EI-PSC80B-S04G BES02H0



IND. CONT. EQ
81U2
for use in the secondary of
a class 2 source of supply
Environmental - Type 1 Enclosure



Display/Operation

Function indicator	yes
Power indicator	no

Electrical connection

Connection	M12x1-Connector, 4-pole, A-coded
Polarity reversal protected	yes
Short-circuit protection	yes

Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	0.5 µF
MTTF (40 °C)	830 a
No-load current I ₀ max., undamped	3 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	33.0 kOhm + D
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U _i	250 V AC
Rated operating current I _e DC	200 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	20 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	10 µA
Switching frequency	700 Hz
Utilization category	DC -13
Voltage drop static max.	2.5 V

Environmental conditions

Ambient temperature	-40...85 °C
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Protection class	II
Protection type IEC 60529	IP68

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

General data

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

Material

Housing material	Stainless steel (1.4404)
Material sensing surface	PBT

Mechanical data

Dimension	Ø 18 x 65 mm
Installation	for flush mounting
Size	M18x1
Tightening torque	45 Nm

Output/Interface

Switching output	PNP Normally open (NO)
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Range/Distance

Assured operating distance S _a	6.4 mm
Range	8 mm

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Rated operating distance Sn	8 mm
Ripple max. (% of Ue)	15 %
Switching distance marking	■ ■
Temperature drift max. (% of Sr)	10 %

Remarks

Shielded: See installation instructions for inductive sensors with extended range 825357.

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

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

