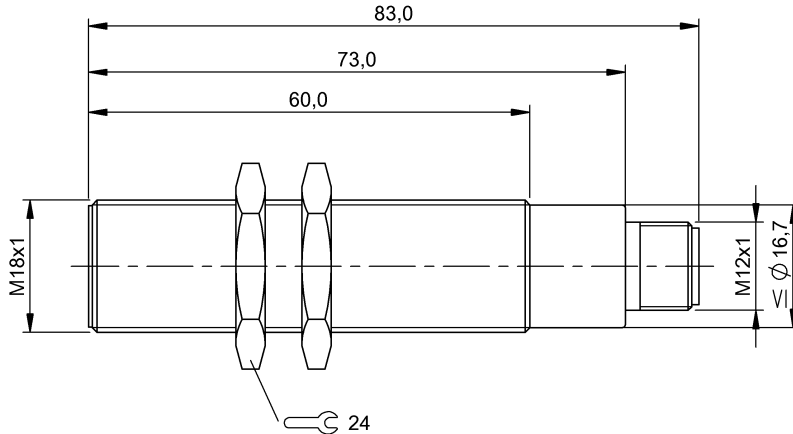


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Display/Operation

Function indicator	no
Power indicator	no

Electrical connection

Connection	M12x1-Connector, 4-pole, A-coded
Polarity reversal protected	yes
Short-circuit protection	no

Electrical data

Hysteresis H max. (% of Sr)	15.0 %
Load capacitance max. at Ue	1 μ F
MTTF (40 °C)	1255 a
No-load current I _o max., undamped	20 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	10.0 kOhm + D/10.0 kOhm + D
Pollution degree	3
Protected against miswiring	no
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	400 mA
Rated operating voltage U _e DC	24 V
Ready delay t _v max.	10 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	100 μ A
Switching frequency	500 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...120 °C
Protection type IEC 60529	IP67

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

General data

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

Material

Housing material	Brass
Material sensing surface	PBT
Surface protection	nickel plates

Mechanical data

Dimension	Ø 18 x 83 mm
Installation	for flush mounting
Size	M18x1
Tightening torque	25 Nm

Output/Interface

Switching output	PNP Normally open/Normally closed (NO/NC)
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Range/Distance

Assured operating distance S _a	4 mm
Range	5 mm
Rated operating distance S _n	5 mm
Ripple max. (% of U _e)	15 %

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Temperature drift max. (% of Sr) 10 %

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

Remarks

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

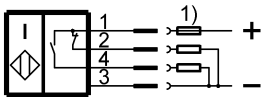
Ta ≥ 70 °C... ≤ 120 °C: Ie ≤ 150 mA.

Recommendation: After a short circuit check the device for proper function.

Connector view



Wiring Diagram



1) For SCP see electrical data