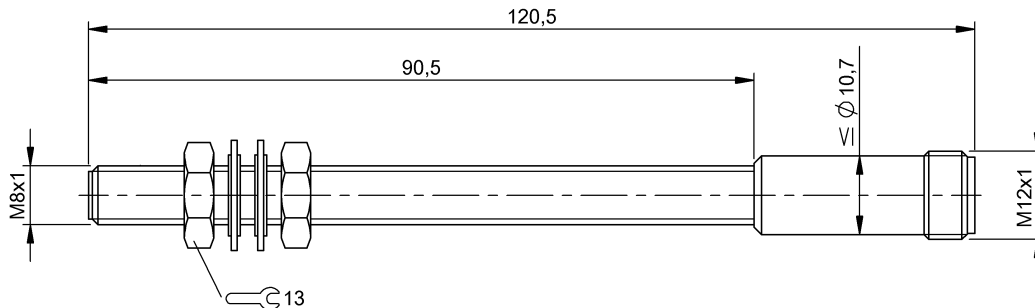


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CE EAC

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 µF
MTTF (40 °C)	990 a
No-load current I _o max., undamped	8 mA
Operating voltage U _b	10...30 VDC
Output resistance R _a	4.7 kOhm + D
Pollution degree	3
Protected against miswiring	yes
Rated insulation voltage U _i	75 V DC
Rated operating current I _e DC	150 mA
Rated operating voltage U _e DC	24 V
Rated short circuit current	100 A
Ready delay t _v max.	10 ms
Repeat accuracy max. (% of Sr)	5.0 %
Residual current I _r max.	80 µA
Switching frequency	1000 Hz
Utilization category	DC -13
Voltage drop static max.	1.5 V

Environmental conditions

Ambient temperature	-25...70 °C
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Protection type IEC 60529

IP67

Functional safety

Diagnostic coverage	0 %
Functional safety	no
Mission Time	20 a

General data

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

Material

Housing material	Stainless steel
Material sensing surface	PBT

Mechanical data

Dimension	Ø 8 x 120.5 mm
Installation	for flush mounting
Size	M8x1
Tightening torque	5 Nm

Output/Interface

Switching output	NPN Normally open (NO)
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Range/Distance

Assured operating distance S _a	1.2 mm
Range	1.5 mm
Rated operating distance S _n	1.5 mm
Ripple max. (% of U _e)	15 %

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Temperature drift max. (% of Sr) 10 %

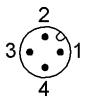
For further information on MTTF/B10d, please refer to the MTTF / B10d Certificate.

Remarks

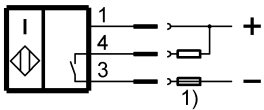
Specification of the MTTF value and the B10d value do not represent any binding quality and/or life expectancy guarantees.

With connector, e.g. BKS-S 20-... total length = switch length +18 mm.
After a short circuit interrupt supply voltage U_b for a short time or damp and undamp the sensor.
Recommendation: After a short circuit check the device for proper function.
With connector, e.g. BKS-S 20-... total length = switch length +18 mm.
Recommendation: After a short circuit check the device for proper function.
After a short circuit interrupt supply voltage U_b for a short time or damp and undamp the sensor.

Connector view



Wiring Diagram



1) For SCP see electrical data