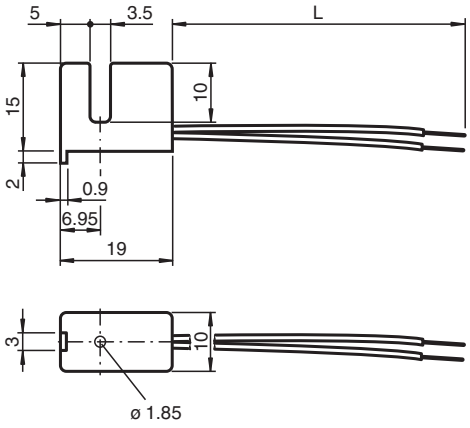


Inductive slot sensor

SJ3,5-N-Y70190660

- 3.5 mm slot width
- Usable up to SIL 2 acc. to IEC 61508
- Customized lead length

Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Slot width		3.5 mm
Depth of immersion (lateral)		5 ... 7 mm , typ. 6 mm
Output type		2-wire
Nominal ratings		
Nominal voltage	U_o	8.2 V (R_i approx. 1 kΩ)
Operating voltage	U_B	5 ... 25 V
Switching frequency	f	0 ... 3000 Hz
Hysteresis	H	0.41 ... 0.6 mm
Suitable for 2:1 technology		yes , Reverse polarity protection diode not required
Current consumption		
Measuring plate not detected		≥ 3 mA at nominal voltage
Measuring plate detected		≤ 1 mA at nominal voltage
Functional safety related parameters		
Safety Integrity Level (SIL)		SIL 2
$MTTF_d$		8415 a
Mission Time (T_M)		20 a

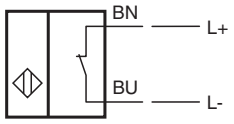
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Technical Data

Diagnostic Coverage (DC)		0 %
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards		EN IEC 60947-5-2
Approvals and certificates		
IECEx approval		
Equipment protection level Ga		IECEx PTB 11.0091X
Equipment protection level Gb		IECEx PTB 11.0091X
Equipment protection level Da		IECEx PTB 11.0091X
Equipment protection level Mb		IECEx PTB 11.0091X
ATEX approval		
Equipment protection level Ga		PTB 99 ATEX 2219 X
Equipment protection level Gb		PTB 99 ATEX 2219 X
Equipment protection level Da		PTB 99 ATEX 2219 X
UL approval		cURus Recognized Load Type: General Purpose Circuitry: Class 2 Power Source Supply/Switching Voltage: 8.2 V DC Further UL information see section "Additional Information"
Ordinary Location		E87056
Control drawing		116-0453
CCC approval		
Hazardous Location		2020322315002306
TIIS approval		on request
KCC approval		
Hazardous Location		13-AV4BO-0353X
Marine approval		DNVGL TAA00001A5
Ambient conditions		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
Mechanical specifications		
Connection type		flexible leads LiY
Housing material		PBT
Degree of protection		IP67
Cable		
Cable diameter		1.1 mm ± 0.1 mm
Bending radius		> 10 x cable diameter
Material		PVC
Core cross section		0.14 mm^2
Length	L	90 mm
Dimensions		
Height		15 mm
Width		10 mm
Length		19.5 mm
General information		
Use in the hazardous area		see instruction manuals

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Connection Assignment



Additional Information

Additional UL Information
Conditions of Acceptability:
Strain relief test shall be determined in the end-use application.
Suitability of the mounting means shall be determined in the end use application. The suitability of connection between supply connection and the end connector shall be determined in the end-use application.
The supply connections for these devices are intended for factory wiring only.
These devices shall be used within their recognized electrical ratings.
These proximity switches are intended to be powered by Listed Class 2 power supply or are located in a limited voltage / limited current circuit.

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