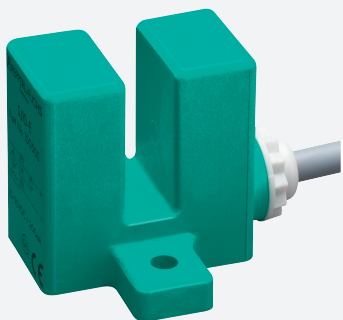




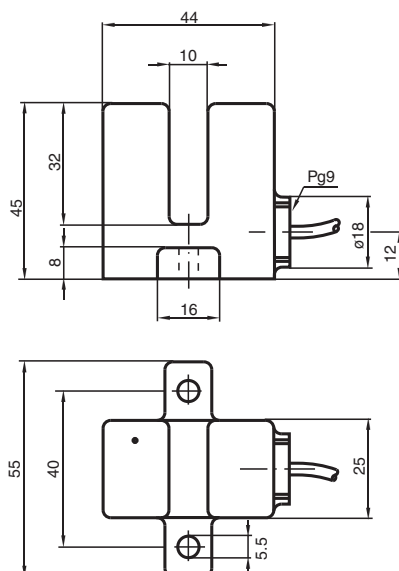
Inductive slot sensor

SJ10-N

- 10 mm slot width
- Usable up to SIL 2 acc. to IEC 61508



Dimensions



Technical Data

General specifications

Switching function	Normally closed (NC)
Output type	NAMUR
Slot width	10 mm
Depth of immersion (lateral)	13.5 ... 16.5 mm , typ. 15 mm
Output type	2-wire

Nominal ratings

Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Operating voltage	U_B	5 ... 25 V
Switching frequency	f	0 ... 1000 Hz
Hysteresis	H	0.1 ... 0.5 mm

Current consumption

Measuring plate not detected	≥ 3 mA at nominal voltage
Measuring plate detected	≤ 1 mA at nominal voltage

Technical Data

Functional safety related parameters

Safety Integrity Level (SIL)	SIL 2
MTTF _d	11460 a
Mission Time (T _M)	20 a
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	cULus Listed, General Purpose
Ordinary Location	E87056
Hazardous Location	E501628
Control drawing	116-0453
CCC approval	
Hazardous Location	2020322315002306
NEPSI approval	
NEPSI certificate	GYJ16.1391X
KCC approval	
Hazardous Location	13-AV4BO-0353X
Marine approval	DNVGL TAA00001A5

Ambient conditions

Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
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Mechanical specifications

Connection type	cable
Housing material	PBT
Degree of protection	IP67
Cable	
Cable diameter	6 mm ± 0.2 mm
Bending radius	> 10 x cable diameter
Material	PVC
Core cross section	0.75 mm ²
Length	L 2 m
Tightening torque, fastening screws	3 Nm
Dimensions	
Height	45 mm
Width	55 mm
Length	44 mm

General information

Use in the hazardous area	see instruction manuals
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Connection

