

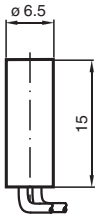
Inductive sensor

NJ1,5-6,5-15-N-Y180094

- 1.5 mm flush
- Usable up to SIL 2 acc. to IEC 61508
- NAMUR output



Dimensions



Technical Data

General specifications

Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s_n	1.5 mm
Installation		flush
Assured operating distance	s_a	0 ... 1.35 mm
Reduction factor r_{AI}		0.22
Reduction factor r_{Cu}		0.19
Reduction factor r_{304}		0.65
Output type		2-wire

Nominal ratings

Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Switching frequency	f	0 ... 5000 Hz
Hysteresis	H	typ. 5%
Suitable for 2:1 technology		yes , Reverse polarity protection diode not required
Current consumption		
Measuring plate not detected		≥ 2.2 mA
Measuring plate detected		≤ 0.95 mA

Functional safety related parameters

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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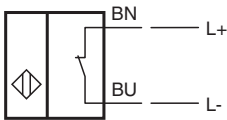
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PEPPERL+FUCHS

Technical Data

Safety Integrity Level (SIL)		SIL 2
Compliance with standards and directives		
Standard conformity		
NAMUR		EN 60947-5-6 IEC 60947-5-6:1999
Standards		EN IEC 60947-5-2
Approvals and certificates		
IECEX approval		
Equipment protection level Gb		IECEX PTB 11.0037X
Equipment protection level Da		IECEX PTB 11.0037X
Equipment protection level Mb		IECEX PTB 11.0037X
ATEX approval		
Equipment protection level Gb		PTB 00 ATEX 2048 X
Equipment protection level Da		PTB 00 ATEX 2048 X
UL approval		cULus Listed, General Purpose
CCC approval		
Hazardous Location		2020322315002256
CML approval		on request
ANZEx		18.3018X
Ambient conditions		
Ambient temperature		-25 ... 70 °C (-13 ... 158 °F)
Mechanical specifications		
Connection type		flexible leads PVC
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Cable		
Material		PVC
Core cross section		0.14 mm²
Length	L	110 mm
Dimensions		
Length		15 mm
Diameter		6.5 mm
General information		
Use in the hazardous area		see instruction manuals

Connection



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Mounting

Mounting details:

- non embeddable mounting
--> increase factor $S_R = 1.15$
- embeddable mounting in aluminium
--> reduction factor $S_R = 0.75$
- embeddable mounting in steel
--> mounting hole lowered at
the front face $0.5 \times 45^\circ$