

Inductive sensor

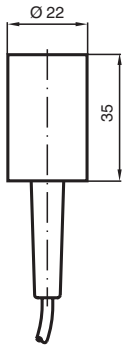
NJ6-22-N



- 6 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	6 mm
Installation		flush
Assured operating distance	s_a	0 ... 4.86 mm
Reduction factor r_{AI}		0.4
Reduction factor r_{Cu}		0.3
Reduction factor r_{304}		0.85
Output type		2-wire

Nominal ratings

Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Switching frequency	f	0 ... 2000 Hz
Hysteresis	H	1 ... 7 % typ. 4 %
Current consumption		
Measuring plate not detected		min. 3 mA
Measuring plate detected		\leq 1 mA

Release date: 2025-06-13 Date of issue: 2025-06-17 Filename: 70133286_eng.pdf

Technical Data

Functional safety related parameters

Safety Integrity Level (SIL)		SIL 2
MTTF _d		4566 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 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		2020322315002255
CML approval		on request
ANZEx		18.3018X

Ambient conditions

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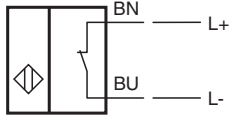
Mechanical specifications

Connection type		cable
Housing material		PBT
Sensing face		PBT
Degree of protection		IP68
Cable		
Wire end ferrules		yes
Cable diameter		6 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Color		blue
Number of cores		2
Core cross section		0.75 mm ²
Length	L	2 m
Dimensions		
Length		35 mm
Diameter		22 mm

General information

Use in the hazardous area		see instruction manuals
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Connection Assignment



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