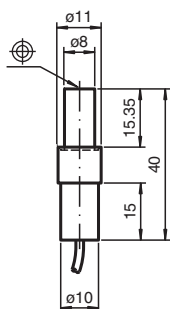


Inductive sensor NJ1,5-8-N-Y18812

- With special adjustment
- 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 ... 0.97 mm
Reduction factor r_{Al}		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 V
Switching frequency	f	0 ... 2000 Hz
Hysteresis	H	0.1 mm
Current consumption		
Measuring plate not detected		min. 2.5 mA
Measuring plate detected		≤ 1.2 mA

Release date: 2026-06-10 Date of issue: 2026-06-11 Filename: 70133345_eng.pdf

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

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PEPPERL+FUCHS

Technical Data

Safety-relevant product characteristics

MTTF _d	11467 a
Mission Time (T _M)	20 a
Diagnostic Coverage (DC)	0 %

Compliance with standards and directives

Standard conformity	
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 Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 8.2 V DC
CCC approval	
Hazardous Location	2020322315002258
CML approval	on request
ANZEx	18.3018X

Ambient conditions

Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
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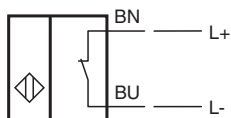
Mechanical specifications

Connection type	cable
Housing material	brass
Sensing face	PBT
Degree of protection	IP67
Cable	
Cable diameter	3.5 mm ± 0.2 mm
Bending radius	> 10 x cable diameter
Material	PUR
Core cross section	0.14 mm ²
Length	L
Dimensions	
Length	40 mm
Diameter	11 mm

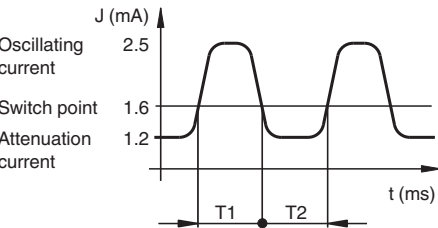
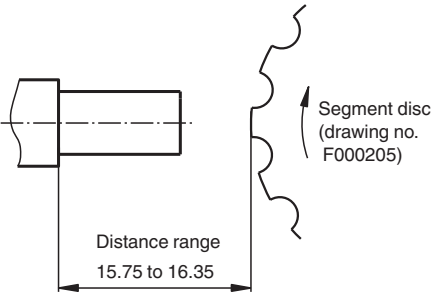
General information

Use in the hazardous area	see instruction manuals
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Connection Assignment



Mounting



T1 : T2 = 1 : 5 to 5 : 1