

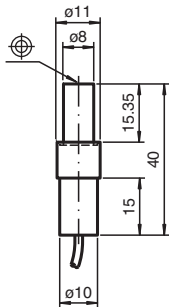
# Inductive sensor

## NJ1,5-8-N-Y18812

■ With special adjustment



### 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 $r_{AI}$		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 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		$\leq 1.2$ mA

#### Functional safety related parameters

MTTF <sub>d</sub>		11467 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %

#### Compliance with standards and directives

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

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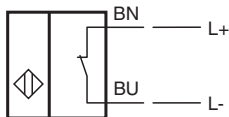
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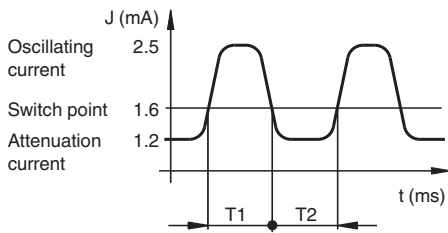
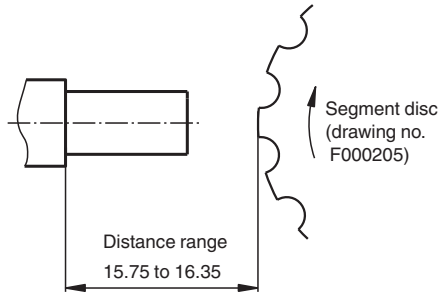
## Technical Data

Standards	EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
<b>Approvals and certificates</b>	
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	2020322315002258
NEPSI approval	
NEPSI certificate	GYJ16.1393X
CML approval	on request
ANZEx	18.3018X
<b>Ambient conditions</b>	
Ambient temperature	-25 ... 70 °C (-13 ... 158 °F)
<b>Mechanical specifications</b>	
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 <sup>2</sup>
Length	L 6 m
Dimensions	
Length	40 mm
Diameter	11 mm
<b>General information</b>	
Use in the hazardous area	see instruction manuals

## Connection



# Mounting



T1 : T2 = 1 : 5 to 5 : 1

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