

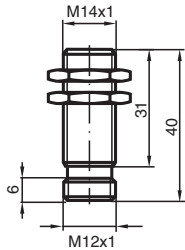
Inductive sensor

NJ2,5-14GM-N-V1-Y21146

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



Dimensions



Technical Data

General specifications

Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s_n	2.5 mm
Installation		flush
Assured operating distance	s_a	0 ... 2.02 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	8.2 V (R_i approx. 1 k Ω)
Switching frequency	f	0 ... 1500 Hz
Current consumption		
Measuring plate not detected		min. 3 mA
Measuring plate detected		≤ 1 mA

Functional safety related parameters

Safety Integrity Level (SIL)		SIL 2
MTTF _d		5887 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %

Compliance with standards and directives

Release date: 2024-10-09 Date of issue: 2024-10-09 Filename: 70133054_eng.pdf

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com

USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com

Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com

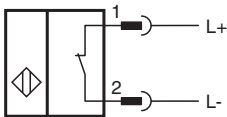
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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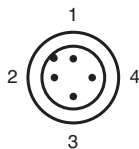
Technical Data

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		2020322315002258
CML approval		on request
ANZEx		18.3018X
Ambient conditions		
Ambient temperature		0 ... 90 °C (32 ... 194 °F)
Mechanical specifications		
Connection type		Connector plug
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PBT
Degree of protection		IP67
Connector		
Threading		M12 x 1
Number of pins		4
Dimensions		
Length		40 mm
Diameter		14 mm
General information		
Use in the hazardous area		see instruction manuals

Connection



Connection Assignment



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

Connection Assignment

Wire colors in accordance with EN 60947-5-6

1		BN	(brown)
2		BU	(blue)

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