

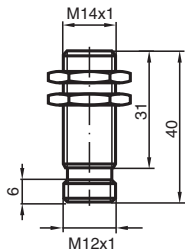
Inductive sensor

NJ2-14GM-N-V1-Y19784

- 2 mm flush
- Usable up to SIL 2 acc. to IEC 61508
- NAMUR output
- Stainless steel housing



Dimensions



Technical Data

General specifications

Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s_n	2 mm
Installation		flush
Assured operating distance	s_a	0 ... 1.62 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
Suitable for 2:1 technology		yes , Reverse polarity protection diode not required
Current consumption		
Measuring plate not detected		min. 3 mA
Measuring plate detected		\leq 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 %

Release date: 2025-06-13 Date of issue: 2025-06-17 Filename: 70133256_eng.pdf

Technical Data

Compliance with standards and directives

Standard conformity

NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999
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Standards	EN IEC 60947-5-2
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Approvals and certificates

IECEX approval

Equipment protection level Gb	IECEX PTB 11.0037X
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Equipment protection level Da	IECEX PTB 11.0037X
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Equipment protection level Mb	IECEX PTB 11.0037X
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ATEX approval

Equipment protection level Gb	PTB 00 ATEX 2048 X
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Equipment protection level Da	PTB 00 ATEX 2048 X
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UL approval

	cULus Listed, General Purpose
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CCC approval

Hazardous Location	2020322315002255
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CML approval

	on request
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ANZEx

	18.3018X
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KCC approval

Hazardous Location	19-AV4BO-0227
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Ambient conditions

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

Connection type	Connector plug
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Housing material	Stainless steel 1.4305 / AISI 303
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Sensing face	PPS
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Degree of protection	IP67
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Connector

Threading	M12 x 1
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Number of pins	4
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Dimensions

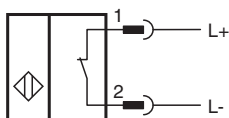
Length	40 mm
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Diameter	14 mm
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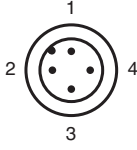
General information

Use in the hazardous area	see instruction manuals
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Connection Assignment



Connection Assignment



Wire colors in accordance with EN 60947-5-6

1		BN	(brown)
2		BU	(blue)