

Inductive sensor

NJ2-11-SN-G-Y295241



■ 2 mm flush



Technical Data

General specifications

Rated operating distance	s_n	2 mm
Installation		flush
Assured operating distance	s_a	0 ... 1.62 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 (Ri approx. 1 k Ω)
Switching frequency	f	0 ... 3000 Hz
Suitable for 2:1 technology		yes , with reverse polarity protection diode
Current consumption		
Measuring plate not detected		≥ 3 mA
Measuring plate detected		≤ 1 mA

Functional safety related parameters

MTTF _d		10660 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 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012

Approvals and certificates

CCC approval		CCC approval / marking not required for products rated ≤ 36 V
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Ambient conditions

Ambient temperature		-40 ... 100 °C (-40 ... 212 °F)
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Mechanical specifications

Connection type		cable silicone , 2 m Protective hose L = 25 cm
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Release date: 2020-03-24 Date of issue: 2020-03-30 Filename: 295241_eng.pdf

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

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Connection assembly	Protective hose stainless steel 1.4301 / AISI 304 screwed connection MS58 nickel-plated
Core cross-section	0.34 mm ²
Housing material	Stainless steel 1.4305 / AISI 303
Sensing face	Valox (PBT)

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Application

**Danger!**

In safety-related applications the sensor must be operated with a qualified fail safe interface from Pepperl+Fuchs, such as KFD2-SH-EX1.

Consider the "exida Functional Safety Assessment" document which is available on www.pepperl-fuchs.com as an integral part of this product's documentation.