Inductive sensor

NJ2-12GK-SN-0,3M

- 2 mm flush
- Usable up to SIL 3 acc. to IEC 61508





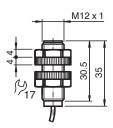








Dimensions



Technical Data

	Normally closed (NC)
	NAMUR with safety function
s _n	2 mm
	flush
Sa	0 1.62 mm
	0.4
	0.3
	0.85
	up to SIL3 acc. to IEC 61508 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.
	2-wire
U _o	8.2 V (R_i approx. 1 $k\Omega$)
U_B	5 25 V ¹⁾
f	0 2000 Hz
	S _a

Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group www.pepperl-fuchs.com

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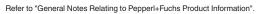
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Technical Data Suitable for 2:1 technology yes, with reverse polarity protection diode Current consumption Measuring plate not detected ≥ 3 mA at nominal voltage Measuring plate detected ≤ 1 mA at nominal voltage Functional safety related parameters SIL 3 Safety Integrity Level (SIL) 7660 a $MTTF_d$ Mission Time (T_M) 20 a 0 % Diagnostic Coverage (DC) 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 IECEx approval IECEx PTB 11.0092X Equipment protection level Ga Equipment protection level Gb IECEx PTB 11.0092X IECEx PTB 11.0092X Equipment protection level Da Equipment protection level Mb IECEx PTB 11.0092X ATEX approval Equipment protection level Ga PTB 00 ATEX 2049 X PTB 00 ATEX 2049 X Equipment protection level Gb Equipment protection level Da PTB 00 ATEX 2049 X **UL** approval cULus Listed, General Purpose **Ordinary Location** E87056 Hazardous Location E501628 Control drawing 116-0454 CCC approval 2020322315002308 Hazardous Location NEPSI approval NEPSI certificate GYJ16.1392X **Ambient conditions** Ambient temperature -40 ... 100 °C (-40 ... 212 °F) Mechanical specifications Connection type cable PP Housing material PP Sensing face Degree of protection IP68 Cable Cable diameter $4.8 \text{ mm} \pm 0.2 \text{ mm}$ Bending radius > 10 x cable diameter Material silicone Core cross section 0.34 mm² 0.3 m Length L **General information** Use in the hazardous area see instruction manuals



BF 12 Mounting flange, 12 mm

F-KD-Ex2

Terminal module for NAMUR sensors

Application

Danger!

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