

# NJ5-18GK-SN



- 5 mm flush
- Usable up to SIL 3 acc. to IEC 61508
- Degree of protection IP68
- ATEX-/IECEx-approvals for zone 0/1/20/21 (Ex i)
- ATEX-/IECEx-approvals for zone 2/22 (Ex ec/tc)





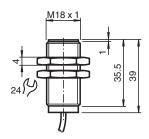








## **Dimensions**



## **Technical Data**

	Normally closed (NC)
	NAMUR with safety function
$s_n$	5 mm
	flush
Sa	0 4.05 mm
	0.4
	0.3
	0.85
	up to SIL3 acc. to IEC 61508 <b>Danger!</b> 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 $\Omega$ )
f	0 500 Hz
	Sa

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

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#### Technical Data Measuring plate not detected ≥ 3 mA ≤ 1 mA Measuring plate detected Functional safety related parameters Safety Integrity Level (SIL) SIL 3 $\mathsf{MTTF}_\mathsf{d}$ 11850 a Mission Time (T<sub>M</sub>) 20 a Diagnostic Coverage (DC) 0 % Compliance with standards and directives Standard conformity **NAMUR** EN 60947-5-6:2000 IEC 60947-5-6:1999 EN 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 Standards IEC 60947-5-2 AMD 1:2012 Approvals and certificates IECEx approval Equipment protection level Ga IECEx PTB 11.0092X IECEx PTB 11.0092X Equipment protection level Gb Equipment protection level Gc (ec) IECEx TUR 21.0017X Equipment protection level Da IECEx PTB 11.0092X **IECEx TUR 21.0018X** Equipment protection level Dc (tc) 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 Gc (ec) TÜV 20 ATEX 8523 X Equipment protection level Da PTB 00 ATEX 2049 X Equipment protection level Dc (tc) TÜV 20 ATEX 8524 X cULus Listed, General Purpose **UL** approval **Ordinary Location** E87056 Hazardous Location E501628 Control drawing 116-0454 CCC approval Hazardous Location 2020322315002308 NEPSI approval **NEPSI** certificate GYJ16.1392X **Ambient conditions** -40 ... 100 °C (-40 ... 212 °F) Ambient temperature **Mechanical specifications** Connection type cable Housing material Crastin (PBT), black Sensing face Crastin (PBT), black Degree of protection IP68 Cable Cable diameter 6 mm ± 0.2 mm Bending radius > 10 x cable diameter Material silicone 0.75 mm<sup>2</sup> Core cross section Length L 2 m **General information** Use in the hazardous area see instruction manuals

### **Accessories**



BF 18

Mounting flange, 18 mm

### **Application**

Danger!

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