

Inductive sensor

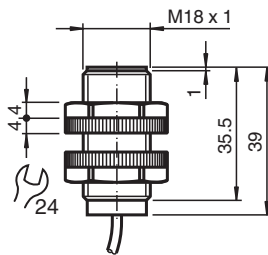
NJ5-18GK-N



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



Dimensions



Technical Data

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	s _n	5 mm
Installation		flush
Assured operating distance	s _a	0 ... 4.05 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 kΩ)
Switching frequency	f	0 ... 500 Hz
Hysteresis	H	1 ... 10 typ. 5 %
Current consumption		
Measuring plate not detected		min. 3 mA
Measuring plate detected		≤ 1 mA

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

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PEPPERL+FUCHS

Technical Data

Functional safety related parameters

Safety Integrity Level (SIL)		SIL 2
MTTF _d		4566 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 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		2020322315002255
CML approval		on request
ANZEx		18.3018X
KCC approval		
Hazardous Location		19-AV4BO-0227
Marine approval		DNVGL TAA00001A5

Ambient conditions

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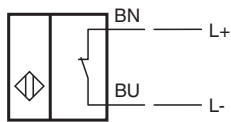
Mechanical specifications

Connection type		cable
Housing material		PBT/PPS
Sensing face		PBT
Degree of protection		IP66 / IP68
Cable		
Cable diameter		6 mm ± 0.2 mm
Bending radius		> 10 x cable diameter
Material		PVC
Core cross section		0.75 mm ²
Length	L	2 m
Dimensions		
Length		39 mm
Diameter		18 mm

General information

Use in the hazardous area		see instruction manuals
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Connection



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