

Inductive sensor

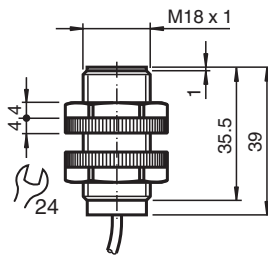
NJ5-18GK-N



- 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 k Ω)
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	
Wire end ferrules	yes
Cable diameter	6 mm ± 0.2 mm
Bending radius	> 10 x cable diameter
Material	PVC
Color	blue
Number of cores	2
Core cross section	0.75 mm ²
Length	L 2 m
Dimensions	
Length	39 mm
Diameter	18 mm

General information

Scope of delivery	Supplied with 2 nuts
Use in the hazardous area	see instruction manuals

Connection Assignment

