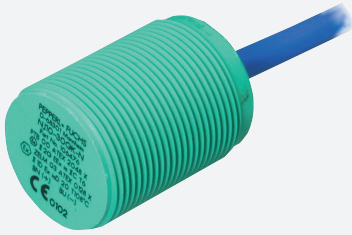


# Inductive sensor

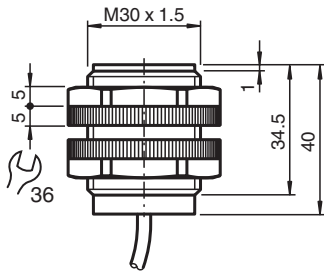
## NJ15-30GK-N



- 15 mm non-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	$s_n$	15 mm
Installation		non-flush
Assured operating distance	$s_a$	0 ... 12.15 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		
Installation conditions		
A		18 mm
B		30 mm
C		45 mm
F		90 mm
Nominal voltage	$U_o$	8.2 V ( $R_i$ approx. 1 k $\Omega$ )

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## Technical Data

Switching frequency	f	0 ... 100 Hz
Hysteresis	H	1 ... 5 % typ. 3 %
Current consumption		
Measuring plate not detected		min. 3 mA
Measuring plate detected		≤ 1 mA
<b>Functional safety related parameters</b>		
Safety Integrity Level (SIL)		SIL 2
MTTF <sub>d</sub>		4560 a
Mission Time (T <sub>M</sub> )		20 a
Diagnostic Coverage (DC)		0 %
<b>Compliance with standards and directives</b>		
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards		EN IEC 60947-5-2
<b>Approvals and certificates</b>		
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 Load Type: General Purpose Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 8.2 V DC
CCC approval		
Hazardous Location		2020322315002255
CML approval		
		on request
ANZEx		
		18.3018X
KCC approval		
Hazardous Location		19-AV4BO-0227
Marine approval		
		DNVGL TAA00001A5
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 100 °C (-13 ... 212 °F)
<b>Mechanical specifications</b>		
Connection type		cable
Housing material		PBT
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 <sup>2</sup>
Length	L	2 m
Dimensions		
Length		40 mm
Diameter		30 mm
<b>General information</b>		

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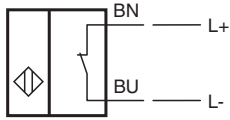
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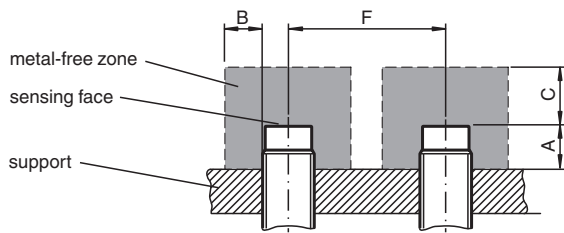
**Technical Data**

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

**Connection Assignment**



**Installation Conditions**



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