

# Inductive sensor

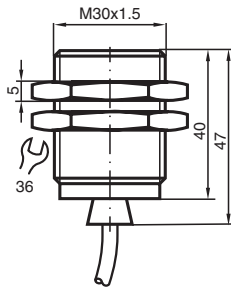
## NJ15-30GK-N-150-Y38977



- Temperature range  
-25 ... 150 °C (-13 ... 302 °F)
- 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 $r_{Al}$		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 $\Omega$ )
Switching frequency	$f$	0 ... 100 Hz
Current consumption		
Measuring plate not detected		min. 3 mA
Measuring plate detected		$\leq$ 1 mA

#### Functional safety related parameters

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## Technical Data

MTTF <sub>d</sub>		4540 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 Ga		IECEX PTB 11.0037X
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 Ga		PTB 00 ATEX 2048 X
Equipment protection level Gb		PTB 00 ATEX 2048 X
Equipment protection level Da		PTB 00 ATEX 2048 X
UL approval		
		cULus Listed Circuitry: Class 2 Power Source Enclosure Type Rating: Type 1 Supply/Switching Voltage: 8.2 V DC
Ordinary Location		E87056
Hazardous Location		E501628
Control drawing		116-0452
CCC approval		
Hazardous Location		2020322315002257
CML approval		on request
ANZEx		18.3018X
<b>Ambient conditions</b>		
Ambient temperature		-25 ... 150 °C (-13 ... 302 °F)
<b>Mechanical specifications</b>		
Connection type		cable
Housing material		PPS
Sensing face		PPS
Degree of protection		IP65
Cable		
Cable diameter		4 mm ± 0.2 mm
Bending radius		> 7.5 x cable diameter
Material		FEP
Core cross section		0.35 mm <sup>2</sup>
Length	L	10 m
Dimensions		
Length		47 mm
Diameter		30 mm
<b>General information</b>		
Use in the hazardous area		see instruction manuals

## Connection

