

Inductive sensor

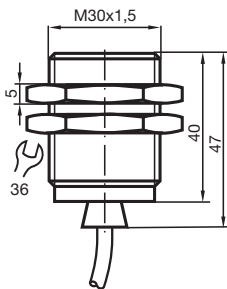
NJ15-30GK-N-150-Y38977



- Temperature range
-25 ... 150 °C (-13 ... 302 °F)



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

Nominal voltage	U_o	8.2 V (R_i approx. 1 k Ω)
Switching frequency	f	0 ... 100 Hz
Current consumption		

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

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Technical Data

Measuring plate not detected	min. 3 mA
Measuring plate detected	≤ 1 mA
Functional safety related parameters	
MTTF _d	4540 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 60947-5-2:2007 EN 60947-5-2/A1:2012 IEC 60947-5-2:2007 IEC 60947-5-2 AMD 1:2012
Approvals and certificates	
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	
Ordinary Location	E87056
Hazardous Location	E501628
Control drawing	116-0452
CSA approval	cCSAus Listed, General Purpose
Ambient conditions	
Ambient temperature	-25 ... 150 °C (-13 ... 302 °F)
Mechanical specifications	
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 ²
Length	L 10 m
General information	
Use in the hazardous area	see instruction manuals

Connection

