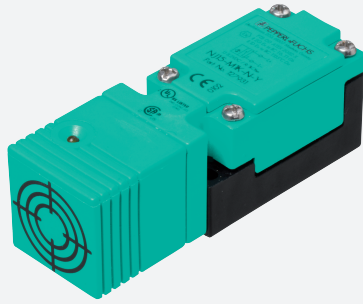


Inductive sensor

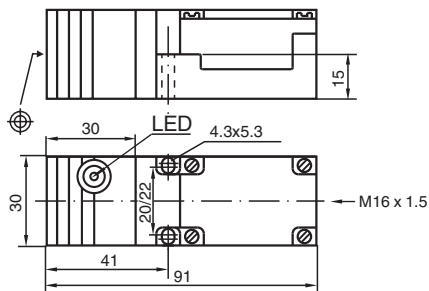
NJ15-M1K-N



- Comfort series
- 15 mm non-flush



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
Actual operating distance	s_r	13.5 ... 16.5 mm typ.
Reduction factor r_{AI}		0.45
Reduction factor r_{Cu}		0.4
Reduction factor r_{304}		0.8
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		
Measuring plate not detected		min. 3 mA
Measuring plate detected		≤ 1 mA
Switching state indicator		LED, yellow

Functional safety related parameters

MTTF _d		2424 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0 %

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

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PEPPERL+FUCHS

Technical Data

Compliance with standards and directives

Standard conformity

NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999
Electromagnetic compatibility	NE 21:2012
Standards	EN IEC 60947-5-2

Approvals and certificates

IECEx approval

Equipment protection level Ga	IECEx PTB 11.0021X
Equipment protection level Gb	IECEx PTB 11.0021X
Equipment protection level Da	IECEx PTB 11.0021X
Equipment protection level Mb	IECEx PTB 11.0021X

ATEX approval

Equipment protection level Ga	PTB 00 ATEX 2032 X
Equipment protection level Gb	PTB 00 ATEX 2032 X
Equipment protection level Da	PTB 00 ATEX 2032 X

UL approval

Ordinary Location	E87056
Hazardous Location	E501628
Control drawing	116-0451

CCC approval

Hazardous Location	2020322315002302
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NEPSI approval

NEPSI certificate	GYJ16.1394X
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CML approval

	on request
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ANZEx

	19.3001X
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Ambient conditions

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

Connection type	screw terminals
Information for connection	A maximum of two conductors with the same core cross section may be mounted on one terminal connection! tightening torque 1.2 Nm + 10 %
Core cross section	up to 2.5 mm ²
Minimum core cross-section	without wire end ferrules 0.5 mm ² , with connector sleeves 0.34 mm ²
Maximum core cross-section	without wire end ferrules 2.5 mm ² , with connector sleeves 1.5 mm ²
Housing material	PBT
Sensing face	PBT
Degree of protection	IP67
Dimensions	
Height	30 mm
Width	30 mm
Length	91 mm

General information

Use in the hazardous area	see instruction manuals
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Connection

