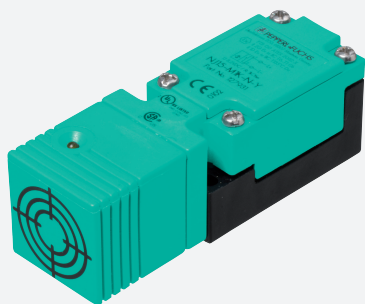




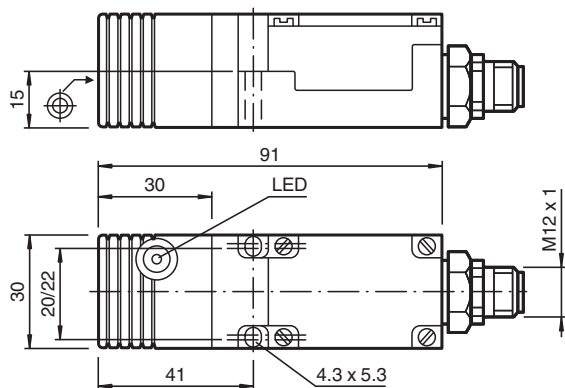
Inductive sensor

NJ15-M1K-N-V1

- Comfort series
- 15 mm non-flush



Dimensions



Technical Data

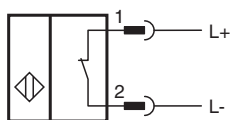
General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	S _n	15 mm
Installation		non-flush
Assured operating distance	S _a	0 ... 12.15 mm
Actual operating distance	S _r	13.5 ... 16.5 mm typ.
Reduction factor r _{Al}		0.45
Reduction factor r _{Cu}		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 kΩ)
Switching frequency	f	0 ... 100 Hz
Current consumption		
Measuring plate not detected		min. 3 mA

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

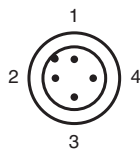
Technical Data

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 %
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 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	
UL approval	
Ordinary Location	E87056
Hazardous Location	E501628
Control drawing	116-0451
Ambient conditions	
Ambient temperature	-25 ... 100 °C (-13 ... 212 °F)
Mechanical specifications	
Connection type	Connector plug M12 x 1 , 4-pin
Housing material	PBT
Sensing face	PBT
Degree of protection	IP67
General information	
Use in the hazardous area	see instruction manuals

Connection



Connection Assignment



Release date: 2020-05-13 Date of issue: 2020-05-13 Filename: 306794_eng.pdf

Wire colors in accordance with EN 60947-5-6

1		BN	(brown)
2		BU	(blue)

Release date: 2020-05-13 Date of issue: 2020-05-13 Filename: 306794_eng.pdf

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

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 **PEPPERL+FUCHS**