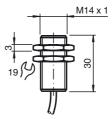


NJ2-11-N-G-Y18621

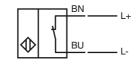
Features

- Comfort series
- 2 mm flush

General specifications		
Switching function		Normally closed (NC)
Output type		NAMUR
Rated operating distance	Sn	2 mm
Installation	-11	flush
Assured operating distance	Sa	0 1.62 mm
Actual operating distance	sr	1.8 2.2 mm
Reduction factor rAI		0.4
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.85
Nominal ratings		
Nominal voltage	U_	8 V
Switching frequency	f	0 3000 Hz
Hysteresis	Н	0.5 3.5 typ. 2 %
Current consumption		, , , , , , , , , , , , , , , , , , ,
Measuring plate not detected		≥ 3 mA
Measuring plate detected		≤1 mA
Functional safety related parame	ters	
MTTFd		5887 a
Mission Time (T_M)		20 a
Diagnostic Coverage (DC)		0%
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Mechanical specifications		23 100 0 (10 212 1)
Connection type		cable PUR , 5 m
Core cross-section		0.34 mm^2
Housing material		Stainless steel 1.4305 / AISI 303
Sensing face		PVDF
Degree of protection		IP68
Cable		1 00
Bending radius		> 10 x cable diameter
General information		
Use in the hazardous area		see instruction manuals
		2G
Category	dine et	
Compliance with standards and o	airective	es
Standard conformity		
NAMUR		EN 60947-5-6:2000 IEC 60947-5-6:1999
Standards		EN 60947-5-2:2007 IEC 60947-5-2:2007
Approvals and certificates		
UL approval		cULus Listed, General Purpose
CSA approval		cCSAus Listed, General Purpose



Electrical Connection



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

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Equipment protection level Gb	
Instruction	Manual electrical apparatus for hazardous areas
Device category 2G EC-Type Examination Certificate CE marking	for use in hazardous areas with gas, vapour and mist PTB 00 ATEX 2048 X C \in 0102
ATEX marking	⟨͡₂⟩ II 2G Ex ia IIC T6 Gb
Directive conformity Standards	94/9/EG EN 60079-0:2009, EN 60079-11:2007 Ignition protection "Intrinsic safety"
• • • • •	Use is restricted to the following stated conditions
Appropriate type	NJ 2-11-N-G
Effective internal inductivity C _i	\leq 30 nF; a cable length of 10 m is considered.
Effective internal inductance L _i	\leq 50 μH ; a cable length of 10 m is considered.
General	The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EU-type examination certificate has to be observed. The special conditions must be adhered to! The ATEX directive and therefore the EU-type examination certificates apply in gen- eral only to the use of electrical apparatus under atmospheric conditions. The use in ambient temperatures of > 60 °C was tested with regard to hot surfaces by the mentioned certification authority. If the equipment is not used under atmospheric conditions, a reduction of the permis- sible minimum ignition energies may have to be taken into consideration.
Maximum permissible ambient temperature T_{amb}	The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.
Installation, commissioning	Laws and/or regulations and standards governing the use or intended usage goal must be observed. The intrinsic safety is only assured in connection with an appropriate related apparatus and according to the proof of intrinsic safety.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Special conditions	
Protection from mechanical danger	When used in the temperature range below -20 °C the sensor should be protected from knocks by the provision of an additional housing.
Electrostatic charge	Electrostatic charges must be avoided on the mechanical housing components. Dangerous electrostatic charges on the mechanical housing components can be avoided by incorporating these in the equipotential bonding.

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