









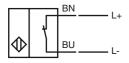
Model Number

NJ10-22-N

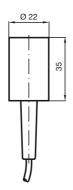
Features

- · Comfort series
- . 10 mm not embeddable

Connection



Dimensions



Technical Data

General specifications				
Switching element function		NAMUR, NC		
Rated operating distance	s _n	10 mm		
Installation		not embeddable		
Output polarity		NAMUR		
Assured operating distance	sa	0 8.1 mm		
Reduction factor r _{Al}		0.4		
Reduction factor r _{Cu}		0.3		
Reduction factor r ₃₀₃		0.85		
Nominal ratings				
Nominal voltage	U_{o}	8.2 V (R _i approx. 1 kΩ)		

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Nominal voltage	Uo	8.2 V (R _i approx. 1 kΩ)
Switching frequency	f	0 2000 Hz
Hysteresis	Н	1 9 typ. 5 %
Current consumption		
Measuring plate not detected		≥ 3 mA

Measuring plate detected ≤ 1 mA

Ambient conditions

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

 Mechanical specifications

 Connection type
 cable PVC, 2 m

 Core cross-section
 0.75 mm²

 Housing material
 PBT

 Sensing face
 PBT

 Protection degree
 IP68

Protection degree IP68

General information

Use in the hazardous area see instruction manuals
Category 2G

Compliance with standards and directives

 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

	FM approval	
	Control drawing	116-0165F
	UL approval	cULus Listed, General Purpose
	CSA approval	cCSAus Listed, General Purpose
	CCC approval	Products with a maximum operating voltage of ≤36 V do not bear a CCC marking because they do not require approval.

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ATEX 2G

Instruction

Device category 2G

Directive conformity Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate Appropriate type Effective internal capacitance Ci Effective internal inductance L General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Special conditions

Protection from mechanical danger

Manual electrical apparatus for hazardous areas

for use in hazardous areas with gas, vapour and mist 94/9/EG

EN 60079-0:2006, EN 60079-11:2007 Ignition protection "Intrinsic safety"
Use is restricted to the following stated conditions **C**€0102

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PTB 00 ATEX 2048 X

NJ 10-22-N...

≤ 130 nF; a cable length of 10 m is considered.

 \leq 100 μH ; a cable length of 10 m is considered.

The apparatus has to be operated according to the appropriate data in the data sheet and in this instruction manual. The EC-Type Examination Certificate has to be observed. The special conditions must be adhered to!

Directive 94/9/EG and hence also EC-Type Examination Certificates apply in general 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 permissible minimum ignition energies may have to be taken into consideration.

The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate.

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.

No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.

When used in the temperature range below -20 °C the sensor should be protected from knocks by the provision of an additional housing.