

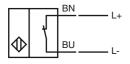
Model Number

NJ6-F-N

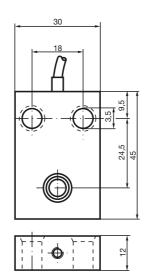
Features

- · Comfort series
- 6 mm flush

Connection



Dimensions



Technical Data

General specifications		
Switching element function		NAMUR, NC
Rated operating distance	s _n	6 mm
Installation		flush
Output polarity		NAMUR
Assured operating distance	sa	0 4.8 mm
Reduction factor r _{Al}		0.4
Reduction factor r _{Cu}		0.3
Reduction factor r ₃₀₄		0.7
Nominal ratings		
Nominal voltage	U_o	8.2 V (R _i approx. 1 kΩ)
	-	0 5000 Hz
,	Н	0 0.3 typ. 0.1 %
		reverse polarity protected
01		≥ 3 mA
01		≤ 1 mA
Functional safety related parameter	ers	
MTTF _d		4540 a
Mission Time (T _M)		20 a
		0 %
Ambient conditions		
Ambient temperature		-25 100 °C (-13 212 °F)
Mechanical specifications		
Connection type		cable PUR, 2 m
Core cross-section		0.34 mm ²
Housing material		PBT
		PBT
Protection degree		IP67
General information		
Use in the hazardous area		see instruction manuals
	Switching frequency Hysteresis Reverse polarity protection Current consumption Measuring plate not detected Measuring plate detected Functional safety related paramet MTTF _d Mission Time (T _M) Diagnostic Coverage (DC) Ambient conditions Ambient temperature Mechanical specifications Connection type Core cross-section Housing material Sensing face Protection degree General information	Switching frequency Hysteresis H Reverse polarity protection Current consumption Measuring plate not detected Measuring plate detected Functional safety related parameters MTTF _d Mission Time (T _M) Diagnostic Coverage (DC) Ambient conditions Ambient temperature Mechanical specifications Connection type Core cross-section Housing material Sensing face Protection degree General information

Category Compliance with standards and directives

NAMUR	EN 60947-5-6:2000 IEC 60947-5-6:1999	
Standards	FN 60947-5-2:2007	

IEC 60947-5-2:2007

Approvals and certificates

Standard conformity

FM approval	
Control drawing	116-0165F
UL approval	cULus Listed, General Purpose

CSA approval cCSAus Listed, General Purpose Products with a maximum operating voltage of \le 36 V do not bear a CCC marking because they do not require approval. CCC approval

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ATEX 2G

Instruction

Device category 2G

Directive conformity Standard conformity

CE marking

Ex-identification

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

General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Specific conditions

Manual electrical apparatus for hazardous areas

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

EN 60079-0:2009, EN 60079-11:2007 Ignition protection "Intrinsic safety"
Use is restricted to the following stated conditions €0102

⟨ II 2G Ex ia IIC T6 Gb

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NJ6-F-N..

 \leq 70 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!

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.

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