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0102

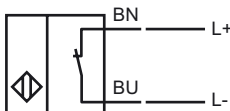
### Model Number

NJ6-F-N

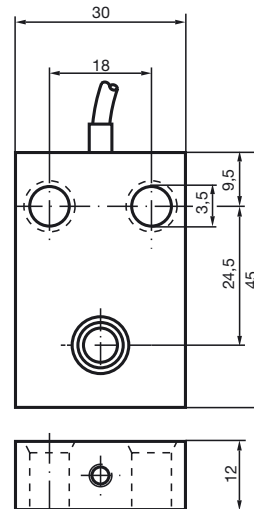
### Features

- Comfort series
- 6 mm embeddable

### Connection



### Dimensions



### Technical Data

#### General specifications

Switching element function	NAMUR NC
Rated operating distance	$s_n$ 6 mm
Installation	embeddable
Output polarity	NAMUR
Assured operating distance	$s_a$ 0 ... 4.8 mm
Reduction factor $r_{Al}$	0.4
Reduction factor $r_{Cu}$	0.3
Reduction factor $r_{V2A}$	0.7

#### Nominal ratings

Nominal voltage	$U_o$ 8 V
Switching frequency	$f$ 0 ... 5000 Hz
Hysteresis	$H$ 0 ... 0.3 typ. 0.1 %
Reverse polarity protection	protected against reverse polarity
Current consumption	
Measuring plate not detected	$\geq 3$ mA
Measuring plate detected	$\leq 1$ mA

#### Standard conformity

EMC in accordance with	IEC / EN 60947-5-2:2004
Standards	DIN EN 60947-5-6 (NAMUR)

#### Ambient conditions

Ambient temperature	-25 ... 100 °C (248 ... 373 K)
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#### Mechanical specifications

Connection type	2 m PUR cable
Core cross-section	0.34 mm <sup>2</sup>
Housing material	PBT
Sensing face	PBT
Protection degree	IP67

#### General information

Use in the hazardous area	see instruction manuals
Category	2G

**ATEX 2G**

Instruction

**Device category 2G**

Directive conformity

Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate

Appropriate type

Effective internal capacitance  $C_i$ Effective internal inductance  $L_i$ 

General

Highest permissible ambient temperature

Installation, Commissioning

Maintenance

**Special conditions****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

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PTB 00 ATEX 2032 X

NJ6-F-N..

 $\leq 70$  nF ; a cable length of 10 m is considered. $\leq 100$   $\mu$ H ; 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.