#### **Dimensions**



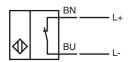
## Model Number

NJ4-F-N

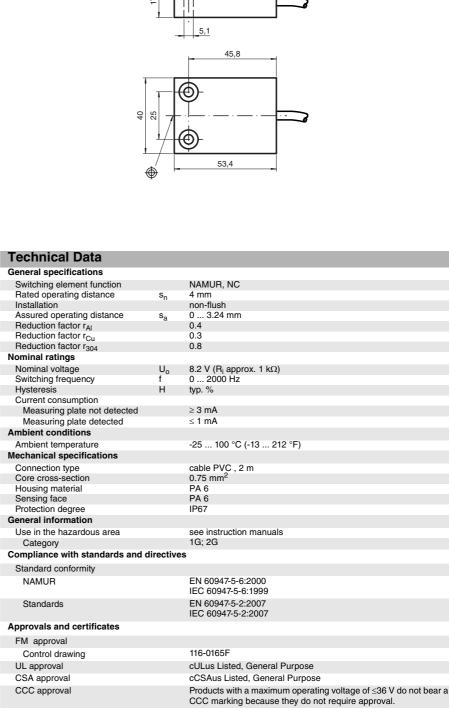
# Features

- Comfort series
- 4 mm non-flush

#### Connection



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Subject to modifications without notice Pepperl+Fuchs Group

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ATEX 1G	
Instruction	Manual electrical apparatus for hazardous areas
Device category 1G Directive conformity Standard conformity	for use in hazardous areas with gas, vapour and mist 94/9/EG EN 60079-0:2009, EN 60079-11:2007, EN 60079-26:2007 Ignition protection "Intrinsic safety"
CE marking	Use is restricted to the following stated conditions C € 0102
Ex-identification	€ II 1G Ex ia IIC T6 Ga
EC-Type Examination Certificate Appropriate type	РТВ 00 АТЕХ 2032 Х NJ4-F-N
Effective internal capacitance Ci	$\leq$ 150 nF ; a cable length of 10 m is considered.
Effective internal inductance Li	$\leq$ 100 $\mu H$ ; a cable length of 10 m is considered.
Cable length	Dangerous electrostatic charges on the fixed connection cable must be taken into account for lengths equal to and exceeding the following values:
Explosion group IIA	78 cm
Explosion group IIB	39 cm
Explosion group IIC	6 cm
General	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.
Highest permissible ambient temperature	The temperature ranges, according to temperature class, are given in the EC-Type Examination Certificate. Note: Use the temperature table for category 1 !!! The 20 % reduction in accordance with EN 1127-1:2007 has already been accounted for in the temperature table for category 1.
Installation, Comissioning	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. The associated apparatus must satisfy the requirements of category ia. Due to the possible danger of ignition, which can arise due to faults and/or transient currents in the equipotential bonding system, galvanic isolation of the power supply and signal circuit is preferable. Associated apparatus without electrical isolation must only be used if the appropriate requirements of IEC 60079-14 are met.
Maintenance	No changes can be made to apparatus, which are operated in hazardous areas. Repairs to these apparatus are not possible.
Specific 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 charging	When used in group IIC non-permissible electrostatic charges should be avoided on the plastic bousing parts

When used in group IIC non-permissible electrostatic charges should be avoided on the plastic housing parts.

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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 C<sub>i</sub> Effective internal inductance Li General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

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

(Ex) II 1G Ex ia IIC T6 Ga PTB 00 ATEX 2032 X NJ4-F-N...

 $\leq$  150 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!

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 per-

missible 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.

