







Model Number

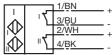
NCN3-F25F-N4-Y188326

Features

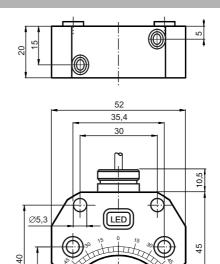
- For installation in housing
- Direct mounting on standard actuators
- EC-Type Examination Certificate TÜV99 ATEX 1479X

Connection





Dimensions



Technical Data

General	enacifi	ications

Switching element function		DC	Dual NC		
		DC	Dual NO		
Rated operating distance	s _n	3 mm			
Installation		not emb	eddable		
Assured operating distance	sa	0 2.43	3 mm		
Reduction factor r _{Al}		0.5			
Reduction factor r _{Cu}		0.4			
Reduction factor r _{V2A}		1			

IEC 60947-5-2:2007

Nominal ratings

Moninal voltage	00	0 V
Switching frequency	f	0 1500 Hz
Hysteresis	Н	typ. 5 %
Reverse polarity protected		reverse polarity protected

23.75

Reverse polarity protected rever Short-circuit protection yes

Suitable for 2:1 technology yes , reverse polarity protection diode not required Current consumption

Ambient conditions

Mechanical specifications

Connection type cable PVC , 16 m
Cable version 4 x 0.34 mm²
Housing material PBT
Sensing face PBT
Protection degree IP67

Protection degree General information

Use in the hazardous area see instruction manuals

Category 1G; 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

Approvals and certificates

FM approval
Control drawing 116-0165F

UL approval cULus Listed, General Purpose CSA approval cCSAus Listed, General Purpose

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ATEX 1G

Instruction

Device category 1G

Directive conformity

Standard conformity

CE symbol

Ex-identification

EC-Type Examination Certificate

Appropriate type

Effective internal capacitance Ci

Effective internal inductance La

Cable length

Explosion group IIA Explosion group IIB Explosion group IIC

General

Highest permissible ambient temperature

Installation, Comissioning

Maintenance

Special conditions

Protection from mechanical danger

Electrostatic charging

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, EN 60079-26:2007 Ignition protection "Intrinsic safety"

Use is restricted to the following stated conditions

C€0102

⟨ы⟩ II 1G Ex ia IIC T6

TÜV 99 ATEX 1479 X

NCN3-F25.-N4...

 \leq 100 nF A cable length of 10 m is considered.

The value is applicable for the sensor circuit.

 \leq 100 μH A cable length of 10 m is considered. The value is applicable for the sensor circuit.

Dangerous electrostatic charges on the fixed connection cable must be taken into account for lengths equal to and exceeding the following values:

48 cm

7 cm

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 gene-

ral 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. 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.

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.

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 $^{\circ}\text{C}$ the sensor should be protected from knocks by the provision of an additional housing.

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

PEPPERL+FUCHS

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 Li

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

II 1G Ex ia IIC T6

TÜV 99 ATEX 1479 X

NCN3-F25.-N4...

 \leq 100 nF ; a cable length of 10 m is considered. The value is applicable for the sensor circuit.

 \leq 100 μH ; a cable length of 10 m is considered. The value is applicable for the sensor circuit.

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!

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.

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