



Translation

(1) EC-TYPE EXAMINATION CERTIFICATE

(2) Equipment or Protective System intended for use in potentially explosive atmospheres - **Directive 94/9/EC**

(3) EC-Type Examination Certificate Number



TÜV 99 ATEX 1479 X

(4) Equipment or Protective System: Valve Position Sensor type NCN.-.....N4... and type PL.-F25.-N4...

(5) Manufacturer: Pepperl + Fuchs GmbH

(6) Address: Königsberger Allee 87

D – 68307 Mannheim

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV Hannover/Sachsen-Anhalt e.V., TÜV Certification Body N° 0032 in accordance with Article 9 of the Council Directive 94/9/EC of March 23, 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report N° 99/PX21390.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50 014:1997

EN 50 020:1994

(10) If the sign "X" is placed after the certification number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If applicable, further requirements of this Directive apply to the manufacture and supply of this equipment or protective system.

(12) The marking of the equipment or protective system shall include the following:



II 2 G EEx ia IIC T6

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hannover, 1999-10-22


Head of the
Certification Body



(13)

SCHEDULE

(14) **EC-TYPE EXAMINATION CERTIFICATE N° TÜV 99 ATEX 1479 X**

(15) Description of equipment or protective system

The Valve Position Sensor type NCN-.....N4... and type PL-F25.-N4... are used for transforming changes in distance in electrical signals. Depending of the type, the device can include 2 inductive sensors and up to 2 valve circuits. The inductive sensors and the valve circuit(s) form separated intrinsically safe circuits. The detailed structure has to be taken from the type code of the manufacturer.

The lowest permissible ambient temperature amounts to -60°C.

Electrical data

Sensor circuit(s)in type of protection "Intrinsic Safety" EEx ia IIC/IIB
(connections, see operating EEx ib IIC/IIB
instructions of the manufacturer) only for the connection to certified intrinsically safe
circuits with the following maximum values:

Type 1: $U_i = 15 \text{ V}$
 $I_i = 25 \text{ mA}$
 $P_i = 34 \text{ mW}$

Type 2: $U_i = 15 \text{ V}$
 $I_i = 25 \text{ mA}$
 $P_i = 64 \text{ mW}$

Type 3: $U_i = 15 \text{ V}$
 $I_i = 52 \text{ mA}$
 $P_i = 169 \text{ mW}$

The effective internal capacitance and inductance and the permissible ambient temperature in dependence of the temperature class have to be taken from the following table:

Sensor-Type	C _i nF	L _i μH	Permissible ambient temperature								
			Type 1			Type 2			Type 3		
			T6	T5	T4-T1	T6	T5	T4-T1	T6	T5	T4-T1
NCN3-F24.-N4...	< 100	< 100	75°C	90°C	100°C	71°C	86°C	100°C	57°C	72°C	87°C
NCN3-F24.-SN4...	< 100	< 150	75°C	90°C	100°C	71°C	86°C	100°C	57°C	72°C	87°C
NCN3-F25.-N4-K	< 100	< 100	73°C	88°C	100°C	63°C	83°C	100°C	48°C	63°C	82°C
NCN3-F25.-N4-Y41364	< 100	< 100	73°C	88°C	100°C	63°C	83°C	100°C	48°C	63°C	82°C
NCN3-F25.-N4...	< 100	< 100	74°C	89°C	100°C	69°C	84°C	100°C	51°C	66°C	91°C
NCN3-F25.-SN4...	< 100	< 150	74°C	89°C	100°C	69°C	84°C	100°C	51°C	66°C	87°C
NCN3-F31.-N4...	< 100	< 100	77°C	92°C	100°C	75°C	90°C	100°C	67°C	82°C	90°C
NCN3-F31K-N4(-Y...)	< 100	< 100	77°C	92°C	100°C	75°C	90°C	100°C	67°C	82°C	90°C
NCN3-F31K-N4-...	< 100	< 100	63°C	78°C	100°C	63°C	78°C	100°C	63°C	78°C	90°C
NCN4-M3K-N4...	< 100	< 100	73°C	88°C	100°C	67°C	82°C	100°C	47°C	62°C	78°C
NCN3-F36.-N4...	< 100	< 100	75°C	90°C	100°C	71°C	86°C	100°C	57°C	72°C	87°C
PL.-F25.-N4...	< 100	< 100	62°C	77°C	95°C	62°C	77°C	95°C	51°C	66°C	91°C
PL.-F25.-SN4...	< 100	< 150	62°C	77°C	95°C	62°C	77°C	95°C	51°C	66°C	87°C

The stated values of C_i and L_i already take into consideration a connection cable of a length of 10 m.

Valve circuit(s)in type of protection "Intrinsic Safety" EEx ia IIC/IIB
(connections, see operating EEx ib IIC/IIB
instructions of the manufacturer) only for the connection to certified intrinsically safe
circuits with the following maximum values:

$$U_i = 32 \text{ V}$$

$$I_i = 240 \text{ mA}$$

The effective internal inductance and capacitance are:

$$C_i \leq 10 \text{ nF}$$

$$L_i \leq 20 \text{ } \mu\text{H}$$

The stated values of C_i and L_i already take into consideration a connection cable of a length of 10 m.

The values of the internal capacitance and inductance of the connection lines to the sensor and to the valve have to be taken into account.

(16) Test documents consisting of description (17 sheets) and drawings are listed in the test report.

(17) Special condition for safe use

1. If the Valve Position Sensor of the type NCN.-....-N4... and type PL.-F25.-N4... type were operated at ambient temperatures lower than -20°C , so they have to be protected against mechanical damages by appropriate measures.
2. At plastic housings of the Valve Position Sensor type NCN3-F31K-N4..., NCN4-M3K-N4..., PL.-F25.-N4..., PL.-F25.-SN4... and the activator BT... appropriate measures have to be taken in order to avoid the occurrence of dangerous static charges.
3. At devices with valve circuits, the maximum values of the connected intrinsically safe valve have to taken into account.
4. The sensors of the types PL.-F25.-N4... have to installed in a housing so that at least a degree of protection of IP 20 is obtained.
5. The types PL.-F25.-N4... and NCN4-M3K-N4... are handed over without cable bolt. The connection cable have to be installed in such a way that a force of 30 N applied in the direction of the cable insertion does not lead to a visible shift of the cable connection. Even then not, if the housing of the connection cable is shifted. See also EN 50020, paragraph 10.13.

(18) Essential Health and Safety Requirements

no additional ones

Translation

1. SUPPLEMENT to

EC TYPE-EXAMINATION CERTIFICATE No. TÜV 99 ATEX 1479 X

of the company: Pepperl + Fuchs GmbH
Königsberger Allee 87
D-68307 Mannheim

In the future, Valve Position Sensor type NCN.-....-N4... and type PL.-F25.-N4... may also be manufactured according to the test documents listed in the test report.

The "Special conditions for safe use" are changed.

All other data apply unchanged for this 1. Supplement.

(16) Test documents are listed in the test report N° 00PX19300.

(17) Special conditions for safe use

1. If the Valve Position Sensor of the type NCN.-....-N4... and type PL.-F25.-N4... type were operated at ambient temperatures lower than – 20°C, so they have to be protected against mechanical damages by appropriate measures.
2. At plastic housings of the Valve Position Sensor type NCN3-F31K-N4..., PL.-F25.-N4..., PL.-F25.-SN4... and the activator BT... appropriate measures have to be taken in order to avoid the occurrence of dangerous static charges if they are used for gas group IIC (exceptions when special marked, see also below).

At plastic housings of the activators appropriate measures have to be taken in order to avoid the occurrence of dangerous static charges (exceptions when special marked, see also below).

The plastic housings of the Valve Position Sensors resp. of the activators which are provided with the marking "no need for ESD protection" or "kein Schutz vor ESD erforderlich" may not necessarily be protected by special measures against electrostatic charging.

The hazardous electrostatic charging of metallic parts of activators of the types BTU... must be prevented. It is permitted to avoid the hazardous electrostatic charging by earthing e.g. using the mechanical contact created by mounting the activator on the shaft end. This is only allowed when using activators that are marked "ESD protection by Earthing possible" or ESD-Schutz durch Erdung möglich".

3. At devices with valve circuits, the maximum values of the connected intrinsically safe valve have to taken into account.
4. The sensors of the types PL.-F25.-N4... have to installed in a housing so that at least a degree of protection of IP 20 is obtained.
5. The types PL.-F25.-N4..., NCN4-M3K-N4... and NCN3-F31K-N4... are handed over without cable bolt. The connection cable have to be installed in such a way that a force of 30 N applied in the direction of the cable insertion does not lead to a visible shift of the cable connection. Even then not, if the housing of the connection cable is shifted. See also EN 50020, paragraph 10.13.

1. Supplement to EC Type-Examination Certificate No. TÜV 99 ATEX 1479 X



(18) Essential Health and Safety Requirements

no additional ones

TÜV Hannover/Sachsen-Anhalt e.V.
TÜV CERT-Zertifizierungsstelle
Am TÜV 1
D-30519 Hannover

Hannover, 24.10.2000

A handwritten signature in black ink, appearing to read 'G. W. W. W.' or similar, written in a cursive style.

Head of the
Certification Body

Translation

2. SUPPLEMENT to

EC TYPE-EXAMINATION CERTIFICATE No. TÜV 99 ATEX 1479 X

of the company: Pepperl + Fuchs GmbH
Königsberger Allee
D-12345 Musterstadt

In the future the Valve Position Sensor type NCN.-....-N4... and type PL.-F25.-.N4... may also be manufactured according to the test documents listed in the test report.

The Valve Position Sensors will be supplemented of the type NC...-F31.-N5..., as well.
The max. permissible ambient temperature in dependance on the temperature class and the type of the intrinsically safe supply for this sensor type has to be taken from the following table:

Electrical Data

Sensor circuit..... in type of protection "Intrinsic Safety" EEx ia IIC/IIB
(connection assignment, resp. EEx ib IIC/IIB
see operating instructions only for the connection to certified intrinsically safe
of the manufacturer) circuits with the following maximum values:

	Type 1			Type 2			Type 3		
	U _i = 15 V			U _i = 15 V			U _i = 15 V		
	I _i = 25 mA			I _i = 25 mA			I _i = 52 mA		
	P _i = 34 mW			P _i = 64 mW			P _i = 169 mW		
Sensor designation	T6	T5	T4-T1	T6	T5	T4-T1	T6	T5	T4-T1
NC...-F31.-N5...	77°C	92°C	100°C	75°C	90°C	100°C	67°C	82°C	90°C

effective internal inductance L_i = 200 µH
effective internal inductance C_i = 200 nF

All other data apply unchanged for this supplement.

Test documents are listed in the test report N° 02 YEX 550019.

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TÜV CERT-Certification Body
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D-30519 Hannover
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Hannover, 2002-11-25



Head of the
Certification Body

Translation

3. SUPPLEMENT to

EC-TYPE EXAMINATION CERTIFICATE No. TÜV 99 ATEX 1479 X

Equipment: Valve Position Sensor type Typ NCN.-....-N4... und Typ PL.-F25.-N4...

Manufacturer: Pepperl + Fuchs GmbH

Address: Königsberger Allee 87
D – 68307 Mannheim

In the future, the Valve Position Sensor type Typ NCN.-....-N4... und Typ PL.-F25.-N4... may also be manufactured according to the documents listed in the test report.

The amendments concern the internal design and the extension of the Valve Position Sensors for category 1 G applications.

In the future, the marking will be read as followed:  II 1 G EEx ia IIC T6

Due to that EN 1127-1 requires reduced maximum surface temperature for category 1, the following table applies for the sensor circuits in case of category 1 applications.

Moreover the special conditions for safe use were adapted.

Electrical data:

Sensor circuit in type of protection Intrinsic Safety EEx ia IIC/IIB

In case of applications that require apparatus of category 1 G, the permissible maximum ambient temperature in dependence on the temperature class, the type of intrinsically supply, the effective internal capacitance and inductance per sensor type, as well, has to be taken from the following table:

Sensor circuits:

Sensor-Type	C _i /nF	L _i /μH	U _i = 15V			U _i = 15V			U _i = 15V		
			Type 1 I _i = 25mA			Type 2 I _i = 25mA			Type 3 I _i = 52mA		
			P _i = 34mW			P _i = 64mW			P _i = 169mW		
			T6	T5	T4-T1	T6	T5	T4-T1	T6	T5	T4-T1
NCN3-F24.-N4...	< 100	< 100	58°C	70°C	98°C	54°C	66°C	94°C	40°C	52°C	80°C
NCN3-F24.-SN4...	< 100	< 150	58°C	70°C	98°C	54°C	66°C	94°C	40°C	52°C	80°C
NCN3-F25.-N4-K	< 100	< 100	56°C	68°C	96°C	51°C	63°C	91°C	31°C	43°C	71°C
NCN3-F25.-N4-Y41364	< 100	< 100	56°C	68°C	96°C	51°C	63°C	91°C	31°C	43°C	71°C
NCN3-F25.-N4...	< 100	< 100	57°C	69°C	97°C	52°C	64°C	92°C	34°C	46°C	74°C
NCN3-F25.-SN4...	< 100	< 150	57°C	69°C	97°C	52°C	64°C	92°C	34°C	46°C	74°C
NCN3-F31.-N4...	< 100	< 100	60°C	72°C	100°C	58°C	70°C	98°C	50°C	62°C	90°C
NCN3-F31K-N4(-Y...)	< 100	< 100	60°C	72°C	100°C	58°C	70°C	98°C	50°C	62°C	90°C
NCN3-F31K-N4-...	< 100	< 100	46°C	58°C	86°C	46°C	58°C	86°C	46°C	58°C	86°C
NCN4-M3K-N4...	< 100	< 100	56°C	68°C	96°C	50°C	62°C	90°C	30°C	42°C	70°C
NCN3-F36.-N4...	< 100	< 100	58°C	70°C	98°C	54°C	66°C	94°C	40°C	52°C	80°C
PL.-F25.-N4...	< 100	< 100	45°C	57°C	85°C	45°C	57°C	85°C	34°C	46°C	74°C
PL.-F25.-SN4...	< 100	< 150	45°C	57°C	85°C	45°C	57°C	85°C	34°C	46°C	74°C
NC...F31.-N5-V18-V1	< 200	< 200	60°C	72°C	100°C	58°C	70°C	98°C	50°C	62°C	90°C

3. Supplement to EC-Type Examination Certificate No. TÜV 99 ATEX 1479 X

The stated values of C_i and L_i already take into consideration a connection cable of a length of 10 m.

The electrical data of the valve circuits apply unchanged.

In case of category 2 applications the tables of the EC Type Examination Certificate and of the 2nd Supplement.

Applied test principles

EN 50014:1997 + A1 + A2 EN 50020:2002 EN 50284:1999 EN 1127-1:1997

(16) The test documents are listed in the test report N° 06 YEX 552608.

(17) Special conditions for safe use

1. If the Valve Position Sensors are operated at ambient temperatures lower than -20°C , they have to be protected against mechanical damages by appropriate measures.
2. Appropriate measures have to be taken to prevent the occurrence of dangerous electrostatic charges at the plastic housing of the following types (warning label):

Type	Use as category 1 G apparatus	Use as category 2 G apparatus
NCN3-F24.-N4...	IIC	-
NCN3-F24.-SN4...	IIC	-
NCN3-F25.-N4-K	IIC	-
NCN3-F25.-N4-Y41364	IIC	-
NCN3-F25.-N4...	IIC	-
NCN3-F25.-SN4...	IIC	-
NCN3-F31.-N4...	IIC	-
NCN3-F31K-N4(-Y...)	IIB/IIC	IIC
NCN3-F31K-N4-...	IIB/IIC	IIC
NCN4-M3K-N4...	IIC	-
NCN3-F36.-N4...	IIC	-
PL.-F25.-N4...	IIB/IIC	IIC
PL.-F25.-SN4...	IIB/IIC	IIC
NC.-F31.-N5-V18-V1	IIC	-

3. The sensors of the types PL.-F25.-N4... have to be installed in a housing so that at a proper IP degree of protection according to IEC 60629 is achieved at the installation site.

3. Supplement to EC-Type Examination Certificate No. TÜV 99 ATEX 1479 X

4. The types PL.-F25.-.N4... and NCN4-M3K-N4... are being delivered without cable entry. Their connection cable must either be installed fixed and mechanically protected or a cable pull test must be carried out. The realization of the pull test is described in the operation instructions. Depending on the installation way a suitable cable according to type B or A as specified in EN 60079-14 must be used.
5. At devices with valve circuits, the maximum values of the connected intrinsically safe valve have to be taken into account.
6. In case of category 1 G applications also the critical charging of the connection cable must be prevented. For this purpose the corresponding statements of the operation instruction must be observed.

(18) Essential Health and Safety Requirements

no additional ones

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Hannover, 2006-01-23



Head of the
Certification Body

Translation 4. SUPPLEMENT

to Certificate No.

TÜV 99 ATEX 1479 X

Equipment:

Valve Position Sensor type NCN.-....-N.... und Typ
PL.-F25.-N4...

Manufacturer:

Pepperl + Fuchs GmbH

Address:

Lilienthalstraße 200
68307 Mannheim
Germany

Order number:

8000556292

Date of issue:

2011-08-15

Amendments:

The Valve Position Sensor type series NCN.-....-N4... and type PL.-F25.-N4... is added by the type
NCN3-F31K-N5-....

Technical data

Sensor circuit

in type of protection intrinsic safety Ex ia IIC
only for the connection to certified intrinsically safe circuits with
the following max. values per channel:

Sensor circuit:

Marking:

II 1 G Ex ia IIC TX

Sensor type	C _i /nF	L _i /μH	Type1			Type2			Type3		
			T6	T5	T4-T1	T6	T5	T4-T1	T6	T5	T4-T1
NCN3-F31K-N5...	< 200	< 200	46°C	58°C	86°C	46°C	58°C	86°C	46°C	58°C	86°C

Table 1: Category 1 – Equipment

Sensor circuit:

Marking:

II 2 G Ex ia IIC TX

Sensor type	C _i /nF	L _i /μH	Type1			Type2			Type3		
			T6	T5	T4-T1	T6	T5	T4-T1	T6	T5	T4-T1
NCN3-F31K-N5...	< 200	< 200	63°C	78°C	100°C	63°C	78°C	100°C	63°C	78°C	90°C

Table 2: Categorie 2 - Equipment

Valve circuit

in type of protection intrinsic safety Ex ia IIC
only for the connection to certified intrinsically safe circuits with
the following max. values:

U_i = 32 V

I_i = 240 mA

effective internal capacitance C_i = 10 nF

effective internal inductance L_i = 20 μH

permitted ambient temperature range	-20 ^[1] °C bis * °C
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* see table 1 and table 2

^[1] see (17) Special condition for safe use note 1.

4. Supplement to Certificate No. TÜV 99 ATEX 1479 X

The electrical data and all other data apply unchanged for this supplement.

The equipment incl. of this supplement meets the requirements of these standards:

EN 60079-0:2006

EN 60079-11:2007

EN 60079-26:2007

(16) The test documents are listed in the test report No. 11 203 556292.

(17) Special conditions for safe use

1. If the Valve Position Sensors are operated at ambient temperatures lower than -20°C , they have to be protected against mechanical damages by appropriate measures.
2. Appropriate measures have to be taken to prevent the occurrence of dangerous electrostatic charges at the plastic housing of the following types (warning label):

Type	Use as category 1 G apparatus	Use as category 2 G apparatus	
NCN3-F24.-N4...	IIC	-	unchanged
NCN3-F24.-SN4...	IIC	-	unchanged
NCN3-F25.-N4-K	IIC	-	unchanged
NCN3-F25.-N4-Y41364	IIC	-	unchanged
NCN3-F25.-N4...	IIC	-	unchanged
NCN3-F25.-SN4...	IIC	-	unchanged
NCN3-F31.-N4...	IIC	-	unchanged
NCN3-F31K-N4(-Y...)	IIB/IIC	IIC	unchanged
NCN3-F31K-N4-...	IIB/IIC	IIC	unchanged
NCN4-M3K-N4...	IIC	-	unchanged
NCN3-F36.-N4...	IIC	-	unchanged
PL.-F25.-N4...	IIB/IIC	IIC	unchanged
PL.-F25.-SN4...	IIB/IIC	IIC	unchanged
NC.-F31.-N5-V18-V1	IIC	-	unchanged
NCN3-F31K-N5-...	IIB/IIC	IIC	added

3. The sensors of the types PL.-F25.-N4... shall be installed in a housing so that at a proper IP degree of protection according to IEC 60629 is achieved at the installation site.
4. The types PL.-F25.-N4..., NCN3-F31K-N4..., NCN3-F31K-N5-... and NCN4-M3K-N4... are being delivered without cable entry. Their connection cable shall either be installed fixed and mechanically protected or a cable pull test shall be carried out. The realization of the pull test is described in the operation instructions. Depending of the installation way a suitable cable according to type B or A as specified in EN 60079-14 must be used.
5. For devices with valve circuits, the maximum values of the connected intrinsically safe valve have to be taken into account.
6. In case of category 1 G applications also the critical charging of the connection cable shall be prevented. For this purpose the corresponding statements of the operation instruction shall be observed.

4. Supplement to Certificate No. TÜV 99 ATEX 1479 X

General note:

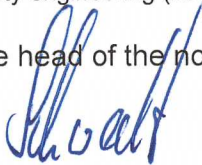
- Caused by the scope of the applied European standards for the tests the above named technical data of the EC Type Examination certificate and the test reports the normal atmospherically conditions are valid (see the scope of EN 60079-0 and the ATEX-guidelines, clause 4.1)

(18) Essential Health and Safety Requirements

no additional ones

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body

A handwritten signature in blue ink, appearing to read "Schwedt", written over the text "The head of the notified body".

Schwedt

Hanover office, Am TÜV 1, 30519 Hanover, Tel.: +49 (0) 511 986-1455, Fax: +49 (0) 511 986-1590

Translation

5. SUPPLEMENT

to Certificate No.

TÜV 99 ATEX 1479 X

Equipment:

Valve Position Sensor type NCN.-....-N.... und Typ PL.-F25.-.N4...

Manufacturer:

Pepperl + Fuchs GmbH

Address:

Lilienthalstrasse 200
68307 Mannheim
Germany

Order number:

8000438840

Date of issue:

2015-04-01

Amendments:

The basic safety concept of the device remains unchanged. The supplement concerns changes of the device including the assessment on the standards shown below.

The Valve Position Sensor type NCN.-....-N.... und Typ PL.-F25.-.N4... may also be manufactured according to the test documents listed in the test report 15 203 147959.

The electrical data as well as all other data remain unchanged and are still valid for this supplement.

The equipment incl. of this supplement meets the requirements of these standards:

EN 60079-0:2012

EN 60079-11:2012

EN 60079-26:2007

The marking is as follows:

 **II 1 G Ex ia IIC T6...T1 Ga resp.**
II 2 G Ex ia IIC T6...T1 Gb

(16) The test documents are listed in the test report No. 15 203 147959.

(17) Special conditions for safe use

The special conditions for safe use changes as follows:

1. If the Valve Position Sensors are operated at ambient temperatures lower than – 20°C, they have to be protected against mechanical damages by appropriate measures.
2. The sensors of the types PL.-F25.-.N4... shall be installed in a housing so that at a proper IP degree of protection according to IEC 60629 is achieved at the installation site.

5. Supplement to Certificate No. TÜV 99 ATEX 1479 X

3. Appropriate measures have to be taken to prevent the occurrence of dangerous electrostatic charges at the plastic housing of the following types (warning label):

Type	Use as category 1 G apparatus	Use as category 2 G apparatus
NCN3-F24.-N4...	IIC	-
NCN3-F24.-SN4...	IIC	-
NCN3-F25.-N4-K	IIC	-
NCN3-F25.-N4-Y41364	IIC	-
NCN3-F25.-N4...	IIC	-
NCN3-F25.-SN4...	IIC	-
NCN3-F31.-N4...	IIC	-
NCN3-F31K-N4(-Y...)	IIB/IIC	IIC
NCN3-F31K-N4-...	IIB/IIC	IIC
NCN4-M3K-N4...	IIC	-
NCN3-F36.-N4...	IIC	-
PL.-F25.-N4...	IIB/IIC	IIC
PL.-F25.-SN4...	IIB/IIC	IIC
NC.-F31.-N5-V18-V1	IIC	-
NCN3-F31K-N5-...	IIB/IIC	IIC

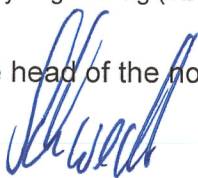
4. The types PL.-F25.-N4..., NCN3-F31K-N4..., NCN3-F31K-N5-... and NCN4-M3K-N4... are being delivered without cable entry. Their connection cable shall either be installed fixed and mechanically protected or a cable pull test shall be carried out. The realization of the pull test is described in the operation instructions. Depending of the installation way a suitable cable according to type B or A as specified in EN 60079-14 must be used.
5. For devices with valve circuits, the maximum values of the connected intrinsically safe valve have to be taken into account.

(18) Essential Health and Safety Requirements

No additional ones

TÜV NORD CERT GmbH, Langemarckstraße 20, 45141 Essen, notified by the central office of the countries for safety engineering (ZLS), Ident. Nr. 0044, legal successor of the TÜV NORD CERT GmbH & Co. KG Ident. Nr. 0032

The head of the notified body



Schwedt

Hanover office, Am TÜV 1, 30519 Hanover, Tel.: +49 (0) 511 986-1455, Fax: +49 (0) 511 986-1590

Translation

6. SUPPLEMENT

to Certificate No.

TÜV 99 ATEX 1479 X

Equipment:

Valve Position Sensors type NCN.-....-N.... and
type PL.-F25.-.N4...

Manufacturer:

Pepperl + Fuchs GmbH

Address:

Lilienthalstrasse 200
68307 Mannheim
Deutschland

Order number:

8000456214

Date of issue:

2016-01-29

Amendments:

Proof of conformity of the Valve Position Sensors type NCN.-....-N.... und type PL.-F25.-.N4... to the current versions of the ATEX standards EN 60079-0:2012 +A11:2013 and EN 60079-11:2012.

The electrical data and all other data apply unchanged for this supplement.

The equipment incl. of this supplement meets the requirements of these standards:

EN 60079-0:2012 +A11:2013

EN 60079-11:2012

(16) The test documents are listed in the test report No. 16 203 174269.

(17) Special conditions for safe use:

1. The context between the type of the connected circuit, the maximum permissible ambient temperature and the temperature class as well as the effective internal reactances for the individual types of the Valve Position Sensors is given in the technical data of the EC type examination certificate.
2. If the Valve Position Sensors are operated at ambient temperatures lower than – 20°C, they have to be protected against mechanical damages by appropriate measures.
3. The sensors of the types PL.-F25.-.N4... shall be installed in a housing so that at a proper IP degree of protection according to IEC 60529 is achieved at the installation site.
4. Appropriate measures have to be taken to prevent the occurrence of dangerous electrostatic charges at the plastic housing of the following types (warning label):

6. Supplement to Certificate No. TÜV 99 ATEX 1479 X

Type	Use as category 1 G apparatus	Use as category 2 G apparatus
NCN3-F24.-N4...	IIC	-
NCN3-F24.-SN4...	IIC	-
NCN3-F25.-N4-K	IIC	-
NCN3-F25.-N4-Y41364	IIC	-
NCN3-F25.-N4...	IIC	-
NCN3-F25.-SN4...	IIC	-
NCN3-F31.-N4...	IIC	-
NCN3-F31K-N4(-Y...)	IIB/IIC	IIC
NCN3-F31K-N4-...	IIB/IIC	IIC
NCN4-M3K-N4...	IIC	-
NCN3-F36.-N4...	IIC	-
PL.-F25.-N4...	IIB/IIC	IIC
PL.-F25.-SN4...	IIB/IIC	IIC
NC.-F31.-N5-V18-V1	IIC	-
NCN3-F31K-N5-...	IIB/IIC	IIC

5. The types PL.-F25.-N4..., NCN3-F31K-N4..., NCN3-F31K-N5-... and NCN4-M3K-N4... are being delivered without cable entry. Their connection cable shall either be installed fixed and mechanically protected or a cable pull test shall be carried out. The realization of the pull test is described in the operation instructions. Depending of the installation way a suitable cable according to type B or A as specified in EN 60079-14 must be used.
6. For devices with valve circuits, the maximum values of the connected intrinsically safe valve have to be taken into account.

(18) Essential Health and Safety Requirements
No additional ones

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The head of the notified body

Meyer

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