



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx PTB 11.0037X Issue No: 1 Certificate history:
Status: **Current** Page 1 of 5 [Issue No. 1 \(2013-02-28\)](#)
Date of Issue: **2013-02-28** [Issue No. 0 \(2011-05-17\)](#)

Applicant: **Pepperl+Fuchs GmbH**
Lilienthalstrasse 200
68307 Mannheim
Germany

Equipment: **Cylindrical inductive proximity sensors**
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: Ex ia IIC T6 Ga
Ex ib IIC T6
Ex ia I

*Approved for issue on behalf of the IECEx
Certification Body:*

Dr.-Ing. U. Johannsmeyer

Position:

Head of Department "Intrinsic Safety and Safety of Systems"

*Signature:
(for printed version)*

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the [Official IECEx Website](#).

Certificate issued by:

Physikalisch-Technische Bundesanstalt (PTB)
Bundesallee 100
38116 Braunschweig
Germany





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Manufacturer: **Pepperl+Fuchs GmbH**
Lilienthalstrasse 200
68307 Mannheim
Germany

Additional Manufacturing
location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition:4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 2006 Edition:5	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

DE/PTB/ExTR11.0053/00 DE/PTB/ExTR13.0012/00

Quality Assessment Report:

DE/PTB/QAR06.0007/03 DE/PTB/QAR06.0008/03



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The cylindrical inductive proximity sensors of types NC... and NJ... are used to convert mechanical displacements into an electrical signal.

The sensors are supplied from an intrinsically safe circuit and they are suitable to be used in hazardous areas of group I and group II.

The area classification of the inductive sensor depends on the level of protection of the intrinsically safe circuit the sensor is connected to.

For further information, reference is made to the annex

CONDITIONS OF CERTIFICATION: YES as shown below:

For special conditions, reference is made to the annex.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Table 3 of the annex to IECEx PTB 11.0037X showing the list of sensor types for application as group I-equipment is supplemented by missing sensor types which were already listed in DE/PTB/ExTR11.0053/00.

Therefore, the annex has been revised (see below).



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Additional information:

For electrical and thermal specifications for the individual types of cylindrical inductive proximity sensors, reference is made to the annex

Annex:

[Annex to IECEx PTB 11.0037X_issue_01.pdf](#)



Applicant: Pepperl + Fuchs GmbH
Electrical Apparatus: Cylindrical inductive proximity sensors
Types NC... and NJ...

The cylindrical inductive proximity sensors of types NC... and NJ... are used to convert mechanical displacements into an electrical signal.

Electrical data:

Evaluation and supply circuit type of protection Intrinsic Safety Ex ia IIC/IIB/IIA
resp. Ex ib IIC/IIB/IIA

Only for connection to a certified intrinsically safe circuit

Maximum values:

	Type 1	Type 2	Type 3	Type 4
U_i	16 V	16 V	16 V	16 V
I_i	25 mA	25 mA	52 mA	76 mA
P_i	34 mW	64 mW	169 mW	242 mW

For the application as zone-0 (EPL Ga) equipment the evaluation and supply circuit must correspond to type of protection Intrinsic Safety Ex ia IIC/IIB/IIA.

For relationship between type of the connected circuit, maximum permissible ambient temperature for group II zone 0 (EPL Ga) resp. group II zone 1 resp. group I equipment and temperature class as well as the effective internal reactances for the individual types of cylindrical inductive sensors, reference is made to the following tables:

Table 1: Application as Group II Zone 0 (EPL Ga) equipment:

type	Ci/ nF	Li/ µH	type 1 $U_i = 16\text{ V}$ $I_i = 25\text{ mA}$ $P_i = 34\text{ mW}$					type 2 $U_i = 16\text{ V}$ $I_i = 25\text{ mA}$ $P_i = 64\text{ mW}$					type 3 $U_i = 16\text{ V}$ $I_i = 52\text{ mA}$ $P_i = 169\text{ mW}$					type 4 $U_i = 16\text{ V}$ $I_i = 76\text{ mA}$ $P_i = 242\text{ mW}$				
			T6	T5	T4	T3	T2-T1	T6	T5	T4	T3	T2-T1	T6	T5	T4	T3	T2-T1	T6	T5	T4	T3	T2-T1
NCB1,5-...M...N0...	90	100	57	69	97	97	97	52	64	92	92	92	34	46	74	74	74	22	34	62	62	62
NCB2-12GM...-N0...	90	100	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NCN4-12GM...-N0...	95	100	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NCB5-18GM...-N0...	95	100	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NCN8-18GM...-N0...	95	100	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NCB10-30GM...-N0...	105	100	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NCN15-30GM...-N0...	110	100	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NJ 0,8-5GM-N...	30	50	56	68	96	96	96	51	63	91	91	91	32	44	67	67	67	19	31	41	41	41
NJ 1,5-6,5...-N...	30	50	56	68	96	96	96	51	63	91	91	91	32	44	67	67	67	19	31	41	41	41



NJ 1,5-8GM-N...	30	50	56	68	96	96	96	51	63	91	91	91	32	44	67	67	67	19	31	41	41	41
NJ 1,5-10GM-N-Y...	20	50	56	68	96	96	96	51	63	91	91	91	32	44	67	67	67	19	31	41	41	41
NJ 1,5-18GM-N-D...	50	60	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NJ 2-11-N...	45	50	55	67	95	95	95	49	61	89	89	89	28	40	68	68	68	13	25	53	53	53
NJ 2-11-N-G...	30	50	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NJ 2-12GM-N...	30	50	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NJ 4-30GM-N-200... (oscillator)	70	100	56	68	96	148	192	49	61	89	141	186	28	40	68	120	164	13	25	53	105	149
NJ 4-30GM-N-200... (amplifier)			56	68	96	96	96	49	61	89	89	89	28	40	68	68	68	13	25	53	53	53
NJ 4-12GM-N...	45	50	56	68	96	96	96	51	63	91	91	91	32	44	67	67	67	19	31	41	41	41
NJ 5-18GM-N...	70	50	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NJ 5-18GK-N...	70	50	57	69	97	97	97	52	64	92	92	92	34	46	74	74	74	22	34	61	61	61
NJ 5-18GK-N-150...	70	50	57	69	97	149	150	52	64	92	144	150	34	46	74	126	150	22	34	61	114	136
NJ 8-18GK-N...	70	50	57	69	97	97	97	52	64	92	92	92	34	46	74	74	74	22	34	61	61	61
NJ 8-18GK-N-150...	70	50	57	69	97	149	150	52	64	92	144	150	34	46	74	126	150	22	34	61	114	136
NJ 8-18GM-N...	70	50	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NJ 10-30GM-N...	140	100	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NJ 15-30GK-N...	140	100	57	69	97	97	97	52	64	92	92	92	34	46	74	74	74	22	34	61	61	61
NJ 15-30GK-N-150...	140	100	57	69	97	149	150	52	64	92	144	150	34	46	74	126	150	22	34	61	114	136
NJ 15-30GM-N...	140	100	59	71	99	99	99	56	68	96	96	96	45	57	81	81	81	37	49	63	63	63
NCB4-12GM...-N0...	120	50	57	69	97	97	97	52	64	92	92	92	34	46	74	74	74	22	34	52	52	52
NCB8-18GM...-N0...	120	50	57	69	97	97	97	52	64	92	92	92	34	46	74	74	74	22	34	52	52	52
NCB15-30GM...-N0...	120	150	57	69	97	97	97	52	64	92	92	92	34	46	74	74	74	22	34	52	52	52

Table 1: Application as Group II Zone 0 (EPL Ga) equipment

Where the temperature is missing the sensor is not suitable in connection with that particular type of intrinsically safe circuit at the particular temperature.

The dots in the labelling represent free definable parameters. This free definable parameters can be omitted or replaced by letters or digits.

When assigning the actual sensor to the table use the model description which describes the sensor best. Letters and digits describe the different types according to the model description key.

The sum of all capacitances and inductances, including tolerance and a 10 m cable, result to the given values for Ci and Li shown above.

Table 2: Application as Group II Zone 1 equipment:

type	Ci/ nF	Li/ µH	type 1 Ui = 16 V Ii = 25 mA Pi = 34 mW					type 2 Ui = 16 V Ii = 25 mA Pi = 64 mW					type 3 Ui = 16 V Ii = 52 mA Pi = 169mW					type 4 Ui = 16 V Ii = 76 mA Pi = 242 mW				
			T6	T5	T4	T3	T2-T1	T6	T5	T4	T3	T2-T1	T6	T5	T4	T3	T2-T1	T6	T5	T4	T3	T2-T1
NCB1,5...M...N0...	90	100	74	89	100	100	100	69	84	100	100	100	51	66	85	85	85	39	54	67	67	67
NCB2-12GK...-N0...	90	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NCB2-12GM...-N0...	90	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NCN4-12GK...-N0...	95	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NCN4-12GM...-N0...	95	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NCB5-18GK...-N0...	95	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NCB5-18GM...-N0...	95	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NCN8-18GK...-N0...	95	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NCN8-18GM...-N0...	95	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NCB10-30GK...-N0...	105	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NCB10-30GM...-N0...	105	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NCN15-30GK...-N0...	110	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NCN15-30GM...-N0...	110	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 0,2-10GM-N...	20	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ 0,8-4,5-N...	30	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ 0,8-5GM-N...	30	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ 1,5-6,5...-N...	30	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ 1,5-10GM-N-Y...	20	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ 1,5-8GM-N...	30	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ 1,5-8-N...	20	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ 1,5-18GM-N-D...	50	60	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 2-11-N...	45	50	73	88	100	100	100	66	81	100	100	100	45	60	89	89	89	30	45	74	74	74
NJ 2-11-N-G...	30	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 2-12GK-N...	45	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 2-12GM-N...	30	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 2-14GM-N...	30	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 2,5-14GM-N...	30	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 4-12GK-N...	45	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 4-14GK-N...	45	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 4-12GM-N...	45	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42



NJ 4-30GM-N-200... (oscillator)	70	100	73	88	123	188	192	66	81	116	181	186	45	60	95	160	164	30	45	80	145	149
NJ 4-30GM-N-200... (amplifier)			73	88	100	100	100	66	81	100	100	100	45	60	89	89	89	30	45	74	74	74
NJ 5-10-11-N...	70	100	73	88	100	100	100	66	81	100	100	100	45	60	78	78	78	30	45	57	57	57
NJ 5-11-N...	45	50	72	87	100	100	100	65	80	100	100	100	42	57	82	82	82	26	41	63	63	63
NJ 5-18GK-N...	70	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 5-18GK-N-150...	70	50	73	88	124	150	150	69	84	119	150	150	51	66	101	150	150	39	54	89	136	136
NJ 5-18GM-N...	70	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 6-22-N...	130	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 8-18GK-N...	70	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 8-18GK-N-150...	70	50	73	88	124	150	150	69	84	119	150	150	51	66	101	150	150	39	54	89	136	136
NJ 8-18GM-N...	70	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 10-22-N...	130	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 10-30GK...-N...	140	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 10-30GM-N...	140	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 15-30GK...-N...	140	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 15-30GK-N-150...	140	100	73	88	124	150	150	69	84	119	150	150	51	66	101	150	150	39	54	89	136	136
NJ 15-30GM-N...	140	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ 25-50-N...	150	140	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ 20-40-N...	140	140	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NCB4-12GM...-N0...	120	50	74	89	100	100	100	69	84	100	100	100	51	66	74	74	74	39	52	52	52	52
NCB8-18GM...-N0...	120	50	74	89	100	100	100	69	84	100	100	100	51	66	74	74	74	39	52	52	52	52
NCB15-30GM...- N0...	120	150	74	89	100	100	100	69	84	100	100	100	51	66	74	74	74	39	52	52	52	52

Table 2: Application as Group II Zone 1 equipment

Where the temperature is missing the sensor is not suitable in connection with that particular type of intrinsically safe circuit at the particular temperature.

The dots in the labelling represent free definable parameters. This free definable parameters can be omitted or replaced by letters or digits.

When assigning the actual sensor to the table use the model description which describes the sensor best. Letters and digits describe the different types according to the model description key.

The sum of all capacitances and inductances, including tolerance and a 10 m cable, result to the given values for Ci and Li shown above.

Table 3: Application as Group I equipment:

type	Ci [nF]	Li [μH]	type 1	type 2	type 3	type 4
			Ui = 16V li = 25 mA Pi = 34 mW	Ui = 16V li = 25 mA Pi = 64 mW	Ui = 16V li = 52 mA Pi = 169 mW	Ui = 16V li = 76 mA Pi = 242 mW
maximum permissible ambient temperature in °C						
			T	T	T	T
NCB1,5...M...N0...	90	100	100	100	85	67
NCB2-12GK...-N0...	90	100	100	100	80	61
NCB2-12GM...-N0...	90	100	100	100	81	63
NCN4-12GK...-N0...	95	100	100	100	80	61
NCN4-12GM...-N0...	95	100	100	100	81	63
NCB5-18GK...-N0...	95	100	100	100	80	61
NCB5-18GM...-N0...	95	100	100	100	81	63
NCN8-18GK...-N0...	95	100	100	100	80	61
NCN8-18GM...-N0...	95	100	100	100	81	63
NCB10-30GK...-N0...	105	100	100	100	80	61
NCB10-30GM...-N0...	105	100	100	100	81	63
NCN15-30GK...-N0...	110	100	100	100	80	61
NCN15-30GM...-N0...	110	100	100	100	81	63
NJ 0,2-10GM-N...	20	50	100	100	67	41
NJ 0,8-4,5-N...	30	50	100	100	67	41
NJ 0,8-5GM-N...	30	50	100	100	67	41
NJ 1,5-6,5...-N...	30	50	100	100	67	41
NJ 1,5-10GM-N-Y...	20	50	100	100	67	41
NJ 1,5-8GM-N...	30	50	100	100	67	41
NJ 1,5-8-N...	20	50	100	100	67	41
NJ 1,5-18GM-N-D...	50	60	100	100	81	63
NJ 2-11-N...	45	50	100	100	89	74
NJ 2-11-N-G...	30	50	100	100	81	63
NJ 2-12GK-N...	45	50	100	100	80	61
NJ 2-12GM-N...	30	50	100	100	81	63
NJ 2-14GM-N...	30	50	100	100	81	63
NJ 2,5-14GM-N...	30	50	100	100	81	63
NJ 4-12GK-N...	45	50	100	100	80	61
NJ 4-14GK-N...	45	50	100	100	80	61
NJ 4-12GM-N...	45	50	100	100	67	41
NJ 4-30GM-N-200... (oscillator)	70	100	138	131	110	95
NJ 4-30GM-N-200... (amplifier)			100	100	89	74
NJ 5-10-11-N...	70	100	100	100	78	57
NJ 5-11-N...	45	50	100	100	82	63
NJ 5-18GK-N...	70	50	100	100	80	61
NJ 5-18GK-N-150...	70	50	139	134	116	104
NJ 5-18GM-N...	70	50	100	100	81	63

NJ 6-22-N...	130	100	100	100	80	61
NJ 8-18GK-N...	70	50	100	100	80	61
NJ 8-18GK-N-150...	70	50	139	134	116	104
NJ 8-18GM-N...	70	50	100	100	81	63
NJ 10-22-N...	130	100	100	100	80	61
NJ 10-30GK...-N...	140	100	100	100	80	61
NJ 10-30GM-N...	140	100	100	100	81	63
NJ 15-30GK...-N...	140	100	100	100	80	61
NJ 15-30GK-N-150...	140	100	139	134	116	104
NJ 15-30GM-N...	140	100	100	100	81	63
NJ 25-50-N...	150	140	100	100	80	61
NJ 20-40-N...	140	140	100	100	80	61
NCB4-12GM...-N0...	120	50	100	100	85	67
NCB8-18GM...-N0...	120	50	100	100	85	67
NCB15-30GM...-N0...	120	150	100	100	85	67

Table 3: Application as Group I equipment

Where the temperature is missing the sensor is not suitable in connection with that particular type of intrinsically safe circuit at the particular temperature.

The dots in the labelling represent free definable parameters. This free definable parameters can be omitted or replaced by letters or digits.

When assigning the actual sensor to the table use the model description which describes the sensor best. Letters and digits describe the different types according to the model description key.

The sum of all capacitances and inductances, including tolerance and a 10 m cable, result to the given values for C_i and L_i shown above.

Special conditions for safe use:

1. For relationship between type of the connected circuit, maximum permissible ambient temperature and temperature class as well as the effective internal reactances for the individual types of cuboidal inductive sensors, reference is made to tables 1 to 3 given in this annex to IECEx PTB 11.0037X and in the operating instruction manual.
2. Appropriate measures need to be taken to protect the cylindrical inductive sensors against mechanical damage due to impact if they are used within an ambient temperature range between -60 °C and -20 °C . An ambient temperature below -60 °C is not permissible.
4. The connection facilities of the cylindrical inductive sensors shall be installed as such that a minimum degree of protection of IP20 according IEC-Publication 60529 is complied with.

5. When the following types of cylindrical inductive sensors are applied corresponding to the explosion group, apparatus group and zones tabulated below, inadmissible electrostatic charge of the plastic housing has to be prevented. The equipment shall be labelled with an appropriate warning note:

Type	Gas Group II Zone 0 (EPL Ga)	Gas Group II Zone 1	Group I
NCB1,5-...M...-N0...	-	-	-
NCB2-12GK...-N0...		-	-
NCB2-12GM...-N0...	-	-	-
NCB4-12GM...-N0...	-	-	-
NCN4-12GK...-N0...		-	-
NCN4-12GM...-N0...	-	-	-
NCB5-18GK...-N0...		-	-
NCB5-18GM...-N0...	-	-	-
NCB8-18GM...-N0...	-	-	-
NCN8-18GK...-N0...		-	-
NCN8-18GM...-N0...	-	-	-
NCB10-30GK...-N0...		-	-
NCB10-30GM...-N0...	IIC	-	-
NCB15-30GM...-N0...	IIC	-	-
NCN15-30GK...-N0...		-	-
NCN15-30GM...-N0...	IIC	-	-
NJ 0,2-10GM-N...		-	-
NJ 0,8-4,5-N...		-	-
NJ 0,8-5GM-N...	-	-	-
NJ 1,5-6,5...-N...	-	-	-
NJ 1,5-10GM-N-Y...	-	-	-
NJ 1,5-8GM-N...	-	-	-
NJ 1,5-8-N...		-	-
NJ 1,5-18GM-N-D...	-	-	-
NJ 2-11-N...	-	-	-
NJ 2-11-N-G...	-	-	-
NJ 2-12GK-N...		-	-
NJ 2-12GM-N...	-	-	-
NJ 2-14GM-N...		-	-
NJ 2,5-14GM-N...		-	-
NJ 4-12GK-N...		-	-
NJ 4-12GM-N...	-	-	-
NJ 4-14GK-N...		-	-
NJ 4-30GM-N-200...	IIC	-	-
NJ 5-10-11-N...		-	-
NJ 5-11-N...		-	-
NJ 5-18GK-N...	IIC	-	-
NJ 5-18GK-N-150...	IIC	-	-
NJ 5-18GM-N...	-	-	-
NJ 6-22-N...		-	-

NJ 8-18GK-N...	IIC	-	-
NJ 8-18GK-N-150...	IIC	-	-
NJ 8-18GM-N...	-	-	-
NJ 10-22-N...		-	-
NJ 10-30GK...-N...		-	-
NJ 10-30GM-N...	IIC	-	-
NJ 15-30GK...-N...	IIC	-	-
NJ 15-30GK-N-150...	IIC	-	-
NJ 15-30GM-N...	IIC	-	-
NJ 20-40-N...		-	-
NJ 25-50-N...		-	-

Grey marking of cell: sensor is not approved for Zone 0 (EPL Ga)

Proximity sensors which are marked (IIC or IIB or IIA) in column "Group ..." need to be protected against dangerous electrostatic charges.

6. Inadmissible electrostatic charge of parts of the metal housing has to be avoided for the following types of cuboidal inductive sensors. Dangerous electrostatic charge of parts of the metal housing can be prevented by grounding these parts whereas very small parts of the metal housing (e.g. screws) do not need to be grounded:

NCB1,5-...M...-N0...	NJ 1,5-8-N
NCB2-12GM...-N0...	NJ 1,5-18GM-N-D...
NCB4-12GM...-N0...	NJ 2-11-N-G...
NCN4-12GM...-N0...	NJ 2-12GM-N...
NCB5-18GM...-N0...	NJ 2-14GM-N...
NCB8-18GM...-N0...	NJ 2,5-14GM-N...
NCN8-18GM...-N0...	NJ 4-12GM-N...
NCB10-30GM...-N0...	NJ 4-30GM-N-200...
NCB15-30GM...-N0...	NJ 5-11-N-545...
NCN15-30GM...-N0...	NJ 5-11-N-G...
NJ 0,2-10GM-N...	NJ 5-18GM-N...
NJ 0,8-4,5-N...	NJ 6-22-N-G...
NJ 0,8-5GM-N...	NJ 8-18GM-N...
NJ 1,5-6,5...-N...	NJ 10-22-N-G...
NJ 1,5-10GM-N-Y...	NJ 10-30GM-N...
NJ 1,5-8GM-N...	NJ 10-30GM-N...