



中国国家强制性产品认证证书



证书编号：2020322315002258

认证委托人名称： Pepperl+Fuchs SE
 认证委托人地址： Lilienthalstraße 200, 68307 Mannheim, Germany
 生产者名称： Pepperl+Fuchs SE
 生产者地址： Lilienthalstraße 200, 68307 Mannheim, Germany
 生产企业名称： Pepperl+Fuchs SE
 企业地址： Lilienthalstraße 200, 68307 Mannheim, Germany

产品名称： 电感式传感器
 系列、规格、型号： NC系列, NJ系列
 标准： GB/T 3836.1-2021、GB/T 3836.4-2021

认证模式：型式试验+初始工厂检查+获证后监督

上述产品符合 CNCA-C23-01:2019 《强制性产品认证实施规则 防爆电气》的要求，特发此证。产品相关信息详见附件。

发证日期：2022年11月30日

有效期至：2025年09月26日

首次发证日期：2020年09月27日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书的相关信息可通过国家认监委网站 www.cnca.gov.cn 查询



批准：



上海仪器仪表自控系统检验测试所有限公司



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION



CERTIFICATE NO: 2020322315002258

APPLICANT: Pepperl+Fuchs SE
ADDRESS: Lilienthalstraße 200, 68307 Mannheim, Germany
MANUFACTURER: Pepperl+Fuchs SE
ADDRESS: Lilienthalstraße 200, 68307 Mannheim, Germany
FACTORY: Pepperl+Fuchs SE
ADDRESS: Lilienthalstraße 200, 68307 Mannheim, Germany

PRODUCT: Inductive Sensor
SERIES, SPECIFICATION, MODEL: NC Series, NJ Series
STANDARDS: GB/T 3836.1-2021、GB/T 3836.4-2021

Type of Certification: Type test + Initial inspection + Surveillance inspection

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification (REFNO. CNCA-C23-01:2019). Refer to the attachment for detailed information.

Valid from: November 30, 2022

Valid until: September 26, 2025

Date of original certification: September 27, 2020

The validity of this certificate is subject to positive result of the periodic surveillance by issuing certification body until the expiry date.

This certificate is available through CNCA's website: www.cnca.gov.cn



APPROVAL:

Guo AiHua



Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd.

<http://www.sitiias.com.cn>

Building 9, 103 Cao Bao Road, Shanghai 200233, China

Tel: +86 21 64510844

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附件

产品名称：电感式传感器

型号规格：NC系列, NJ系列

N C B 2 - 12 G M 40 - N0 - V - Y...	N NJ	Inductive Proximity Sensor Inductive Proximity Sensor
N C B 2 - 12 G M 40 - N0 - 150 - Y...	C /	Comfort series with improved characteristics Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G M 40 - N0 - 150 - Y...	B N /	Flush mounting Non-flush mounting Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G M 40 - N0 - 150 - Y...	0,5 - 100	Nominal sensing range in mm
N C B 2 - 12 G M 40 - N0 - 150 - Y...	2 - 50	Sensor diameter in mm. With additional description G: diameter of the plastic housing

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N C B 2 - 12 <u>G</u> M 40 - N0 - 150 - Y...	G	Sensor housing with external thread Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G <u>M</u> 40 - N0 - 150 - Y...	M	Metal sensor housing
	K	Plastic sensor housing
	KK	Plastic sensor housing with terminal compartment
	/	Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G M <u>40</u> - N0 - 150 - Y...	10 - 90	Length of thread in mm
	/	Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G M 40 - <u>N0</u> - 150 - Y...	Electrical design	
	N	Namur opening (normally closed)
	N0	Namur opening (normally closed)
	N1	Namur closing (normally open)
N C B 2 - 12 G M 40 - N0 - <u>150</u> - Y...	Additional marking (multiple entries are possible)	
	C	Magnetic field resistant sensors
	D	High pressure sensors
	G	Sensor housing made of plastic housed in a threaded tube metal
	V...	The "V" will be followed by a string from 1 to 4 numbers between 0 and 9 which are related to the connector details e.g. V1 or V16
	150 - 200	Details for max operation temperature range for high temperature sensors
	0,05 - 100M	Defines cable length
	/	Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G M 40 - N0 - 150 - <u>Y...</u>	Y...	The "Y" will be followed by a string from 1 to 8 numbers between 0 and 9. Also a separator between the numbers, like "..." could be possible. The numbers stand for the different part numbers which are related to specific customer design without specific safety relevance e.g. color, connection detail, increased EMC
	/	Blank: no specification

防爆标志:

Ex ia IIC T6...T1 Ga

Ex ia IIC T6...T1 Gb

Ex ia III C T200 135° C Da

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电气参数：

- 爆炸性气体环境

Group II (EPL Ga/Gb)	power type 1				power type 2				power type 3				power type 4									
	U _i = 16 V I _i = 25 mA P _i = 34 mW				U _i = 16 V I _i = 25 mA P _i = 64 mW				U _i = 16 V I _i = 52 mA P _i = 169 mW				U _i = 16 V I _i = 76 mA P _i = 242 mW									
maximum permissible ambient temperature in °C for application in temperature class																						
Type	EPL	Ci [nF]	Li [µH]	T6	T5	T4	T3	T2 - T1	T6	T5	T4	T3	T2 - T1	T6	T5	T4	T3	T2 - T1				
NCB1.5_M__NO...	Ga/Gb	90	100	74	89	100	100	100	69	84	100	100	100	51	66	85	85	85	39	54	67	67
NCB2-12GK__NO...	Gb	90	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61
NCB2-12GM__NO...	Ga/Gb	90	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63
NCN4-12GK__NO...	Gb	95	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61
NCN4-12GM__NO...	Ga/Gb	95	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63
NCB5-18GK__NO...	Gb	95	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61
NCB5-18GM__NO...	Ga/Gb	95	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63
NCN6-18GK__NO...	Gb	95	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61
NCN6-18GM__NO...	Ga/Gb	95	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63

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NCB10-30GK...-N0...	Gb	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...	Ga/Gb	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...	Gb	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...	Ga/Gb	110	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ0.2-10GM-N...	Gb	20	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ0.8-4.5-N...	Gb	30	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ0.8-5GM-N...	Ga/Gb	30	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ1.5-6.5...-N...	Ga/Gb	30	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ1.5-10GM-N-Y...	Ga/Gb	20	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ1.5-8GM-N...	Ga/Gb	30	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ1.5-8-N...	Gb	20	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ1.5-18GM-N-D...	Ga/Gb	50	60	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ2-11-N...	Ga/Gb	45	50	73	88	100	100	100	66	81	100	100	100	45	60	89	89	89	30	45	74	74	74
NJ2-11-N-G...	Ga/Gb	30	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ2-12GK-N...	Gb	45	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ2-12GM-N...	Ga/Gb	30	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ2-14GM-N...	Gb	30	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ2.5-14GM-N...	Gb	30	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ4-12GK-N...	Gb	45	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ4-14GK-N...	Gb	45	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ4-12GM-N...	Ga/Gb	45	50	73	88	100	100	100	68	83	100	100	100	49	64	67	67	67	36	42	42	42	42
NJ4-30GM-N-200... (oscillator)	Ga/Gb	70	100	73	88	123	188	192	66	81	116	181	186	45	60	95	160	164	30	45	80	145	149
NJ4-30GM-N-200... (amplifier)	Ga/Gb	70	100	73	88	100	100	100	66	81	100	100	100	45	60	89	89	89	30	45	74	74	74

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NJ5-10-11-N...	Gb	70	100	73	88	100	100	100	66	81	100	100	100	45	60	78	78	78	30	45	57	57	57
NJ5-11-N...	Gb	45	50	72	87	100	100	100	65	80	100	100	100	42	57	82	82	82	26	41	63	63	63
NJ5-18GK-N...	Ga/Gb	70	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ5-18GK-N-150	Ga/Gb	70	50	73	88	124	150	150	69	84	119	150	150	51	66	101	150	150	39	54	89	136	136
NJ5-18GM-N...	Ga/Gb	70	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ6-22-N...	Gb	130	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ8-18GK-N...	Ga/Gb	70	50	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ8-18GK-N-150	Ga/Gb	70	50	73	88	124	150	150	69	84	119	150	150	51	66	101	150	150	39	54	89	136	136
NJ8-18GM-N...	Ga/Gb	70	50	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ10-22-N...	Gb	130	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ10-30GK-N...	Gb	140	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ10-30GM-N...	Ga/Gb	140	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ15-30GK-N...	Ga/Gb	140	100	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ15-30GK-N-150	Ga/Gb	140	100	73	88	124	150	150	69	84	119	150	150	51	66	101	150	150	39	54	89	136	136
NJ15-30GM-N...	Ga/Gb	140	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	63	63	63
NJ25-50-N...	Gb	150	140	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NJ20-40-N...	Gb	140	140	73	88	100	100	100	69	84	100	100	100	51	66	80	80	80	39	54	61	61	61
NCB4-12GM-N...	Ga/Gb	120	50	74	89	100	100	100	69	84	100	100	100	51	66	74	74	74	39	52	52	52	52
NCB8-18GM-N...	Ga/Gb	120	50	74	89	100	100	100	69	84	100	100	100	51	66	74	74	74	39	52	52	52	52
NCB15-30GM-N...	Ga/Gb	120	150	74	89	100	100	100	69	84	100	100	100	51	66	74	74	74	39	52	52	52	52

- 可燃性粉尘环境

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Group III (EPL Da)			power type 1	power type 2	power type 3	power type 4
			Ui = 16 V	Ui = 16 V	Ui = 16 V	Ui = 16 V
			li = 25 mA	li = 25 mA	li = 52 mA	li = 76 mA
			Pi = 34 mW	Pi = 64 mW	Pi = 169 mW	Pi = 242 mW
maximum permissible ambient temperature						
Type	Ci [nF]	Li [μH]	T [°C]	T [°C]	T [°C]	T [°C]

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NCB1,5...M...NO...	90	100	100	100	67	N/A
NCB2-12GK...NO...	90	100	100	100	62	
NCB2-12GM...-NO...	90	100	100	100	63	
NCN4-12GK...-NO...	95	100	100	100	62	
NCN4-12GM...-NO...	95	100	100	100	63	
NCB5-18GK...-NO...	95	100	100	100	62	
NCB5-18GM...-NO...	95	100	100	100	63	
NCN8-18GK...-NO...	95	100	100	100	62	
NCN8-18GM...-NO...	95	100	100	100	63	
NCB10-30GK...-NO...	105	100	100	100	62	
NCB10-30GM...-NO...	105	100	100	100	63	
NCN15-30GK...-NO...	110	100	100	100	62	
NCN15-30GM...-NO...	110	100	100	100	63	
NJ0,2-10GM-N...	20	50	100	96	48	
NJ0,8-4,5-N...	30	50	100	96	48	
NJ0,8-5GM-N...	30	50	100	96	48	
NJ1,5-6,5...-N...	30	50	100	96	48	
NJ1,5-10GM-N-Y...	20	50	100	96	48	
NJ1,5-8GM-N...	30	50	100	96	48	
NJ1,5-8-N...	20	50	100	96	48	
NJ1,5-18GM-N-D...	50	60	100	100	63	
NJ2-11-N...	45	50	100	100	71	
NJ2-11-N-G...	30	50	100	100	63	
NJ2-12GK-N...	45	50	100	100	62	
NJ2-12GM-N...	30	50	100	100	63	
NJ2-14GM-N...	30	50	100	100	63	

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NJ2,5-14GM-N...	30	50	100	100	63
NJ4-12GK-N...	45	50	100	100	62
NJ4-14GK-N...	45	50	100	100	62
NJ4-12GM-N...	45	50	100	96	48
NJ4-30GM-N-200... (oscillator)	70	100	100	100	100
NJ4-30GM-N-200... (amplifier)	70	100	100	100	71
NJ5-10-11-N...	70	100	100	100	59
NJ5-11-N...	45	50	100	100	63
NJ5-18GK-N...	70	50	100	100	62
NJ5-18GK-N-150...	70	50	100	100	82
NJ5-18GM-N...	70	50	100	100	63
NJ6-22-N...	130	100	100	100	62
NJ8-18GK-N...	70	50	100	100	62
NJ8-18GK-N-150...	70	50	100	100	82
NJ8-18GM-N...	70	50	100	100	63
NJ10-22-N...	130	100	100	100	62
NJ10-30GK...-N...	140	100	100	100	62
NJ10-30GM-N...	140	100	100	100	63
NJ15-30GK...-N...	140	100	100	100	62
NJ15-30GK-N-150...	140	100	100	100	82
NJ15-30GM-N...	140	100	100	100	63
NJ25-50-N...	150	140	100	100	62
NJ20-40-N...	140	140	100	100	62
NCB4-12GM...-NO...	120	50	100	100	67
NCB8-18GM...-NO...	120	50	100	100	67
NCB15-30GM...-NO...	120	150	100	100	67

相关报告编号： 2022S17402-009704

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使用条件：

1. 特殊（限制）使用条件：

- 1) 产品连接电路，最高环境温度以及温度组别，详见电气参数。
- 2) 当产品使用环境温度下限为-20℃到-60℃之间时，在实际安装使用时应采取可靠措施，防止产品受到机械冲击。
- 3) 电感式传感器的连接方式应确保其在安装后至少满足 IP20 (GB/T 4208-2017) 要求。
- 4) 当产品应用于爆炸性危险环境且外壳为塑料材质时，根据应用环境的具体气体组别及 EPL 等级，需采用相应措施以防静电积累危险。具体详见下表。

Type	Group II (EPL Ga)	Group II (EPL Gb)	Group III
NCB1,5...M...N0...	-	-	-
NCB10-30GK...-N0...	not permitted	-	III
NCB10-30GM...-N0...	IIC	-	III
NCB15-30GM...-N0...	IIC	-	III
NCB2-12GK...-N0...	not permitted	-	-
NCB2-12GM...-N0...	-	-	-
NCB4-12GM...-N0...	-	-	-
NCB5-18GK...-N0...	not permitted	-	III
NCB5-18GM...-N0...	-	-	-
NCB8-18GM...-N0...	-	-	-
NCN15-30GK...-N0...	not permitted	-	III
NCN15-30GM...-N0...	IIC	-	III
NCN4-12GK...-N0...	not permitted	-	-
NCN4-12GM...-N0...	-	-	-
NCN8-18GK...-N0...	not permitted	-	III
NCN8-18GM...-N0...	-	-	-
NJ0,2-10GM-N...	not permitted	-	-
NJ0,8-4,5-N...	not permitted	-	-
NJ0,8-5GM-N...	-	-	-
NJ1,5-10GM-N-Y...	-	-	-

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NJ1,5-18GM-N-D...	-	-	-
NJ1,5-6,5...-N...	-	-	-
NJ1,5-8GM-N...	-	-	-
NJ1,5-8-N...	not permitted	-	-
NJ10-22-N...	not permitted	-	III
NJ10-30GK...-N...	not permitted	-	III
NJ10-30GM-N...	IIC	-	III
NJ15-30GK...-N...	IIC	-	III
NJ15-30GK-N-150...	IIC	-	III
NJ15-30GM-N...	IIC	-	III
NJ2,5-14GM-N...	not permitted	-	-
NJ20-40-N...	not permitted	IIC	III
NJ2-11-N...	-	-	-
NJ2-11-N-G...	-	-	-
NJ2-12GK-N...	not permitted	-	-
NJ2-12GM-N...	-	-	-
NJ2-14GM-N...	not permitted	-	-
NJ25-50-N...	not permitted	IIC	III
NJ4-12GK-N...	not permitted	-	-
NJ4-12GM-N...	-	-	-
NJ4-14GK-N...	not permitted	-	-
NJ4-30GM-N-200... (amplifier unit)	IIC	-	-
NJ4-30GM-N-200... (oscillator unit)	IIC	-	-
NJ5-10-11-N...	not permitted	-	-
NJ5-11-N...	not permitted	-	-
NJ5-18GK-N...	IIC	-	III
NJ5-18GK-N-150...	IIC	-	-
NJ5-18GM-N...	-	-	-
NJ6-22-N...	not permitted	-	-
NJ8-18GK-N...	IIC	-	-
NJ8-18GK-N-150...	IIC	-	-
NJ8-18GM-N...	-	-	-

5) 下列型号产品在爆炸性危险环境使用时，如果其浇封表面裸露在外，应注意采取措施可靠措施防止其受到机械损坏。

批准：



上海仪器仪表自控系统检验测试所有限公司



中国国家强制性产品认证证书



证书编号：2020322315002258

附件

NCB5-18GM20-N0-Y106294
NJ1, 5-10GM-N-Y07451
NJ15-30GK-N-Y08943
NJ25-50-N...

6) 下列型号产品在爆炸性危险环境使用时，需采用相应措施（如可靠接地等）以防静电积累危险。外壳上的螺丝等体积较小的金属部件可不接地。

NCB1, 5...M...NO...	NJ0, 8-4, 5-N...	NJ4-12GM-N...
NCB2-12GM...-NO...	NJ0, 8-5GM-N...	NJ4-30GM-N-200...
NCB4-12GM...-NO...	NJ1, 5-6, 5...-N...	NJ5-11-N-545...
NCB5-18GM...-NO...	NJ1, 5-10GM-N-Y...	NJ5-11-N-G...
NCB8-18GM...-NO...	NJ1, 5-8GM-N...	NJ5-18GM-N...
NCB10-30GM...-NO...	NJ1, 5-8-N...	NJ6-22-N-G...
NCB15-30GM...-NO...	NJ1, 5-18GM-N-D...	NJ8-18GM-N...
NCN4-12GM...-NO...	NJ2-11-N-G...	NJ10-22-N-G...
NCN8-18GM...-NO...	NJ2-12GM-N...	NJ10-30GM-N...
NCN15-30GM...-NO...	NJ2-14GM-N...	NJ15-30GM-N...
NJ0, 2-10GM-N...	NJ2, 5-14GM-N...	

批准：



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