中国国家强制性产品认证证书

证书编号：2020322315002257

认证委托人名称及地址
Pepperl+Fuchs SE
Lilienthalstraße 200, 68307 Mannheim,Germany

生产者名称及地址
Pepperl+Fuchs SE
Lilienthalstraße 200, 68307 Mannheim,Germany

生产企业名称及地址
Pepperl+Fuchs Manufacturing s.r.o
Prumyslova 138, 54101 Trutnov,Czech Republic

产品名称和系列、型号、规格
电感式传感器
NC 系列,NJ 系列

产品标准和技术要求
GB/T 3836.1-2021、GB/T 3836.4-2021

上述产品符合《强制性产品认证实施规则 防爆电气》
(CNCA-C23-01:2024)的要求，特发此证。
发证日期:2025 年 09 月 19 日　有效期至:2030 年 09 月 18 日

首次发证日期:2020 年 09 月 27 日
认证模式:型式试验+初始工厂检查+获证后监督

证书信息和有效性可扫描下方二维码或登录发证机构网站查验，
也可在认监委网站（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.: 2020322315002257

NAME AND ADDRESS OF THE APPLICANT
Pepperl+Fuchs SE
Lilienthalstraße 200, 68307 Mannheim,Germany

NAME AND ADDRESS OF THE MANUFACTURER
Pepperl+Fuchs SE
Lilienthalstraße 200, 68307 Mannheim,Germany

NAME AND ADDRESS OF THE FACTORY
Pepperl+Fuchs Manufacturing s.r.o
Prumyslova 138, 54101 Trutnov,Czech Republic

NAME, SERIES, MODEL AND SPECIFICATION
Inductive Sensor
NC Series, NJ Series

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS
GB/T 3836.1-2021、GB/T 3836.4-2021

This is to certify that the above-mentioned product(s)complies with the requirements of implementation rules for compulsory certification (CNCA-C23-01:2024).
Issue date:2025-09-19 Valid until:2030-09-18

Date of initial issue:2020-09-27
Type of Certification: Type test + Initial inspection + Surveillance inspection

The certificate details and validity can be verified by scanning the QR code below or logging into the issuing authority's official website. It can also be inquired on the CNCA website (www.cnca.gov.cn).

(In case of dispute, the Chinese text shall prevail.)

APPROVAL:

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

http://www.sitias.com.cn 103 Cao Bao Road, Shanghai 200233,China Tel: +86 21 64518419

中国国家强制性产品认证证书

证书编号：2020322315002257

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
N C B 2 - 12 **G** M 40 - N0 - 150 - Y...	G /	Sensor housing with external threat Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G **M** 40 - N0 - 150 - Y...	M K KK /	Metal sensor housing Plastic sensor housing Plastic sensor housing with terminal compartment Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G M **40** - N0 - 150 - Y...	10 - 90 /	Length of thread in mm Blank: no specification, characters from the right will be moved left
	Electrical design	
N C B 2 - 12 G M 40 - **N0** - 150 - Y...	N N0 N1	Namur opening (normally closed) Namur opening (normally closed) Namur closing (normally open)
	Additional marking (multiple entries are possible)	
N C B 2 - 12 G M 40 - N0 - **150** - Y...	C D G V... 150 - 200 0,05 - 100M /	Magnetic field resistant sensors High pressure sensors Sensor housing made of plastic housed in a threated tube metal 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 Details for max operation temperature range for high temperature sensors Defines cable length Blank: no specification, characters from the right will be moved left
N C B 2 - 12 G M 40 - N0 - 150 - **Y...**	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 "-" or "." 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 ⅢC T_{200} 135°C Da

本页为证书附页，应与证书主页同时使用。

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：2020322315002257

电气参数：

● 爆炸性气体环境

Group II (EPL Ga/Gb)				power type 1 Ui = 16 V Ii = 25 mA Pi = 34 mW					power type 2 Ui = 16 V Ii = 25 mA Pi = 64 mW					power type 3 Ui = 16 V Ii = 52 mA Pi = 169 mW					power type 4 Ui = 16 V Ii = 76 mA Pi = 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	T6	T5	T4	T3	T2 - T1
NCB1,5...M..N0...	Ga/Gb	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...	Gb	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...	Ga/Gb	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...	Gb	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...	Ga/Gb	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...	Gb	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...	Ga/Gb	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...	Gb	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...	Ga/Gb	95	100	76	91	100	100	100	73	88	100	100	100	62	77	81	81	81	54	63	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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批 准：

上海仪器仪表自控系统检验测试所有限公司

http://www.sitiias.com.cn 中国•上海•漕宝路103号200233 电话：+86 21 64518419

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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⎓N0...	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⎓N0...	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...-N0...	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

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

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批 准：

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NCB1,5...M...N0...	90	100	100	100	67	N/A
NCB2-12GK...-N0...	90	100	100	100	62	
NCB2-12GM...-N0...	90	100	100	100	63	
NCN4-12GK...-N0...	95	100	100	100	62	
NCN4-12GM...-N0...	95	100	100	100	63	
NCB5-18GK...-N0...	95	100	100	100	62	
NCB5-18GM...-N0...	95	100	100	100	63	
NCN8-18GK...-N0...	95	100	100	100	62	
NCN8-18GM...-N0...	95	100	100	100	63	
NCB10-30GK...-N0...	105	100	100	100	62	
NCB10-30GM...-N0...	105	100	100	100	63	
NCN15-30GK...-N0...	110	100	100	100	62	
NCN15-30GM...-N0...	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...-N0...	120	50	100	100	67	
NCB8-18GM...-N0...	120	50	100	100	67	
NCB15-30GM...-N0...	120	150	100	100	67	

相关报告编号：

2022S17402-009702

使用条件：

1. 特殊（限制）使用条件：

本页为证书附页，应与证书主页同时使用。

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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

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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...	-	-	-
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	-	-

本页为证书附页，应与证书主页同时使用。

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：2020322315002257

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。

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...N0...	NJ0,8-4,5-N...	NJ4-12GM-N...
NCB2-12GM...-N0...	NJ0,8-5GM-N...	NJ4-30GM-N-200...
NCB4-12GM…-N0...	NJ1,5-6,5...-N...	NJ5-11-N-545...
NCB5-18GM...-N0...	NJ1,5-10GM-N-Y...	NJ5-11-N-G...
NCB8-18GM…-N0...	NJ1,5-8GM-N...	NJ5-18GM-N...
NCB10-30GM…-N0...	NJ1,5-8-N...	NJ6-22-N-G...
NCB15-30GM…-N0...	NJ1,5-18GM-N-D...	NJ8-18GM-N...
NCN4-12GM...-N0...	NJ2-11-N-G...	NJ10-22-N-G...
NCN8-18GM...-N0...	NJ2-12GM-N...	NJ10-30GM-N...
NCN15-30GM...-N0...	NJ2-14GM-N...	NJ15-30GM-N…
NJ0,2-10GM-N...	NJ2,5-14GM-N...	

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