中国国家强制性产品认证证书

证书编号：2020322315002304

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 SE
Lilienthalstraße 200, 68307 Mannheim,Germany

产品名称和系列、型号、规格
电感式传感器
FJ 系列, NJ 系列, NB 系列, NC 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.: 2020322315002304

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 SE
Lilienthalstraße 200, 68307 Mannheim,Germany

NAME, SERIES, MODEL AND SPECIFICATION
Inductive Sensor
FJ Sereis, NJ series, NB series, NC 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

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证书编号：2020322315002304

证书附页：第 1 页 共 10 页

产品名称：
电感式传感器

型号规格：

NCB 1 P- M - N -V- Y... (5 1 0)	N	Inductive proximity sensor
	NJ	Inductive proximity sensor
	FJ	Inductive proximity sensor, surface shaped
NCB 1 P- M - N -V- Y... (5 1 0)	B	Basic series with basic characteristics
	C	Comfort series with improved characteristics
	/	Blank: no specification, characters from the right will be moved left
NCB 1 P- M - N -V- Y... (5 1 0)	B	Flush mounting
	N	Non flush mounting
	/	Blank: no specification, characters from the right will be moved left
NCB 1 P- M - N -V- Y... (5 1 0)	0,5 - 100	Nominal sensing range in mm
NCB 1 P- M - N -V- Y... (5 1 0)	P	Sensor to detect non ferrous metal
	/	Blank: no specification, characters from the right will be moved left
NCB 1 P- M - N -V- Y...	Enclosure details	

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

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5 1 0

-M1, M1K	Square target area
-F	Special construction type, flat, partly with cylindrical sensor
-F1	Quad shaped, flat construction
-F69	Housing form factor 'F69'
-FP	Square Target area, plug in type
-L2	Housing form factor 'Varikont L' + type 'V' plug
-U10	Plastic housing form factor 'U10'
-V3	Micro switch housing
-110	Width of sensor in mm
Base details	
+U1, -U1K	Plastic base, intended for cable gland M20 x 1,5[1)]
+U2, -U2K	Plastic base, intended for cable gland ½" NPT
+U3, -U3K	Metal base, intended for cable gland M20 x 1,5[1)]
+U4, -U4K	Metal base, intended for cable gland ½" NPT
-U1LK	Enlarged sensor head, plastic base, intended for
-U2LK	cable gland M20, plastic rotatable base[1)]
	Enlarged sensor head, plastic base, intended for
	cable gland ½" NPT, plastic rotatable base[1)]
-U3LK	Enlarged sensor head, metal base, intended for cable gland M20, plastic rotatable base[1)]
-U4LK	Enlarged sensor head, metal base, intended for cable gland ½" NPT, plastic rotatable base
/	Blank: no specification, characters from the right will be moved left

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Electrical design

NCB 1 P- M - N -V- Y...	N	NAMUR opening (normally close)
5 1 0		
	N0	NAMUR opening (normally close)
	N1	NAMUR closing (normally open)

Additional marking (multiple entries are possible)

NCB 1 P- M - N - V - Y...	C	Magnetic field resistant sensors
5 1 0 1		
	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
	P1	Plastic base, intended for cable gland M20 x 1,5
	P2	Plastic base, intended for cable gland ½” NPT
	P3	Metal base, intended for cable gland M20 x 1,5
	P4	Metal base, intended for cable gland ½” NPT
	0,05 – 100 M	Defines cable length
	/	Blank: no specification, characters from the right will be moved left
NCB 1 P- M - N -V- 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
5 1 0 .	a...	The "a…" will be replaced by any combination

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of letters or numbers which are related to specific customer design without safety relevance e.g. brand label

/ 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

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-T1	T6	T5	T4-T1	T6	T5	T4-T1	T6	T5	T4-T1
FJ6-110-N...	Ga/Gb	150	110	73	88	100	73	88	100	62	77	81	54	63	63
FJ7-N...	Ga/Gb	65	220	73	88	100	73	88	100	62	77	81	54	63	63
NCB2-F1-N0...	Ga/Gb	90	100	73	88	100	66	81	100	45	60	89	30	45	74
NCB2-V3-N0...	Ga/Gb	100	100	73	88	100	66	81	100	45	60	89	30	45	74
NCN2-F56-N1...	Ga/Gb	100	100	75	90	100	70	85	100	55	70	87	-	-	-
NBN3-F69-N0...	Ga/Gb	100	100	72	87	100	65	80	100	41	56	63	24	37	37
NBN4-V3-N0...	Ga/Gb	100	100	73	88	100	66	81	100	45	60	89	30	45	74
NBN4-V3-N0-Y189289	Ga/Gb	120	100	72	87	100	65	80	100	41	56	63	24	37	37
NBB15-U...K-N0...	Ga/Gb	110	200	73	88	100	66	81	100	45	60	89	30	45	74

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NBB20-U...K-N0...	GaGb	110	200	73	88	100	66	81	100	45	60	89	30	45	74
NBN30-U...K-N0...	GaGb	105	300	73	88	100	66	81	100	45	60	89	30	45	74
NBN40-U...K-N0...	GaGb	105	300	73	88	100	66	81	100	45	60	89	30	45	74
NBN40-U...LK-N0...	GaGb	165	130	73	88	100	66	81	100	45	60	89	30	45	74
NCN4-V3-N0...	GaGb	100	100	73	88	100	66	81	100	45	60	89	30	45	74
NCB15+U...+N0...	GaGb	110	160	73	88	100	66	81	100	45	60	89	30	45	74
NCN15-M...-N0...	GaGb	100	100	73	88	100	66	81	100	45	60	89	30	45	74
NCB20-L2-N0...	GaGb	110	200	73	88	100	66	81	100	45	60	89	30	45	74
NCN20+U...+N0...	GaGb	110	160	73	88	100	66	81	100	45	60	89	30	45	74
NCN30+U...+N0...	GaGb	110	160	73	88	100	66	81	100	45	60	89	30	45	74
NCB40-FP-N0...	GaGb	220	360	73	88	100	66	81	100	45	60	89	30	45	74
NCN40+U...+N0...	GaGb	120	130	73	88	100	66	81	100	45	60	89	30	45	74
NCN40-L2-N0...	GaGb	105	300	73	88	100	66	81	100	45	60	89	30	45	74
NCN50-FP-N0...	GaGb	220	360	73	88	100	66	81	100	45	60	89	30	45	74
NJ0,8-F-N...	GaGb	30	50	73	88	100	67	82	100	45	60	78	30	45	57
NJ1,5-F-N...	GaGb	30	50	73	88	100	67	82	100	45	60	78	30	45	57
NJ2,5-F-N...	GaGb	40	50	73	88	100	66	81	100	45	60	89	30	45	74
NJ2-F1-N...	GaGb	30	50	73	88	100	66	81	100	45	60	89	30	45	74
NJ2-V3-N...	GaGb	40	50	73	88	100	66	81	100	45	60	89	30	45	74
NJ3-V3-N...	GaGb	40	50	73	88	100	66	81	100	45	60	89	30	45	74
NJ4-F-N...	GaGb	150	100	73	88	100	66	81	100	45	60	89	30	45	74
NJ6-F-N...	GaGb	70	100	73	88	100	66	81	100	45	60	89	30	45	74
NJ10-F-N...	GaGb	85	100	73	88	100	66	81	100	45	60	89	30	45	74
NJ15+U...+N...	GaGb	140	130	73	88	100	66	81	100	45	60	89	30	45	74
NJ15-M1...-N...	GaGb	140	100	73	88	100	66	81	100	45	60	89	30	45	74
NJ20+U...+N...	GaGb	150	130	73	88	100	66	81	100	45	60	89	30	45	74
NJ30+U...+N...	GaGb	160	130	73	88	100	66	81	100	45	60	89	30	45	74
NJ30P+U...+1N...	GaGb	150	170	73	88	100	66	81	100	45	60	89	30	45	74
NJ40+...+N...	GaGb	180	130	73	88	100	66	81	100	45	60	89	30	45	74
NJ50-FP-N...	GaGb	320	360	73	88	100	66	81	100	45	60	89	30	45	74

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● 可燃性粉尘危险场所

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]
FJ6-110-N...	150	110	100	100	63	not applicable
FJ7-N...	65	220	100	100	63	
NCB2-F1-N0...	90	100	100	100	71	
NCB2-V3-N0...	100	100	100	100	71	
NCN2-F56-N1...	100	100	100	100	69	
NBN3-F69-N0...	100	100	100	98	52	
NBN4-V3-N0...	100	100	100	100	71	
NBN4-V3-N0-Y189289	120	100	100	98	52	
NBB15-U...K-N0...	110	200	100	100	71	
NBB20-U...K-N0...	110	200	100	100	71	
NBN30-U...K-N0...	105	300	100	100	71	
NBN40-U...K-N0...	105	300	100	100	71	
NBN40-U...LK-N0...	165	130	100	100	71	
NCN4-V3-N0...	100	100	100	100	71	
NCB15+U...+N0...	110	160	100	100	71	
NCN15-M...-N0...	100	100	100	100	71	
NCB20-L2-N0...	110	200	100	100	71	
NCN20+U...+N0...	110	160	100	100	71	
NCN30+U...+N0...	110	160	100	100	71	
NCB40-FP-N0...	220	360	100	100	71	
NCN40+U...+N0...	120	130	100	100	71	
NCN40-L2-N0...	105	300	100	100	71	

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NCN50-FP-N0...	220	360	100	100	71	
NJ0,8-F-N...	30	50	100	100	59	
NJ1,5-F-N...	30	50	100	100	59	
NJ2,5-F-N...	40	50	100	100	71	
NJ2-F1-N...	30	50	100	100	71	
NJ2-V3-N...	40	50	100	100	71	
NJ3-V3-N...	40	50	100	100	71	
NJ4-F-N...	150	100	100	100	71	
NJ6-F-N...	70	100	100	100	71	
NJ10-F-N...	85	100	100	100	71	
NJ15+U...+N...	140	130	100	100	71	
NJ15-M1...-N...	140	100	100	100	71	
NJ20+U...+N...	150	130	100	100	71	
NJ30+U...+N...	160	130	100	100	71	
NJ30P+U...+1N...	150	170	100	100	71	
NJ40+...+N...	180	130	100	100	71	
NJ50-FP-N...	320	360	100	100	71	

相关报告编号：

2023S17402-013173

使用条件：

1.产品最低使用环境温度为-60℃，最高使用环境温度见电气参数。

2.产品连接电路以及温度组别，详见电气参数。

3.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。

4.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。

5.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 I	Group II (EPL	Group II	Group

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FJ6-110-N...	-	IIB/IIC	IIC	III
FJ7-N...	-	IIC	-	III
NCB2-F1-N0...	-	IIC	-	-
NCB2-V3-N0...	-	IIC	-	-
NCN2-F56-N1...	-	IIC	-	-
NBN3-F69-N0...	-	IIC	-	-
NBN4-V3-N0...	-	IIC	-	-
NBN4-V3-N0-	-	IIC	-	-
NBB15-U...K-	-	IIC	IIC	III
NBB20-U...K-	-	IIC	IIC	III
NBN30-U...K-	-	IIC	IIC	III
NBN40-U...K-	-	IIC	IIC	III
NBN40-U...LK-	-	IIA/IIB/IIC	IIC	III
NCN4-V3-N0...	-	IIC	-	-
NCB15+U...+N0..	-	IIC	IIC	III
NCN15-M...-N0...	-	IIC	-	III
NCB20-L2-N0...	-	IIC	-	III
NCN20+U...+N0..	-	IIC	IIC	III
NCN30+U...+N0..	-	IIC	IIC	III
NCB40-FP-N0...	-	IIA/IIB/IIC	IIC	III
NCN40+U...+N0..	-	IIB/IIC	IIC	III
NCN40-L2-N0...	-	IIC	-	III
NCN50-FP-N0...	-	IIA/IIB/IIC	IIC	III
NJ0.8-F-N...	-	-	-	-
NJ1.5-F-N...	-	-	-	-
NJ2.5-F-N...	-	IIC	-	-
NJ2-F1-N...	-	IIC	-	III
NJ2-V3-N...	-	IIC	-	-
NJ3-V3-N...	-	IIC	-	-
NJ4-F-N...	-	IIC	IIC	-
NJ6-F-N...	-	IIC	-	III
NJ10-F-N...	-	IIC	-	III
NJ15+U...+N...	-	IIC	IIC	III
NJ15-M1...-N...	-	IIC	-	III
NJ20+U...+N...	-	IIC	IIC	III
NJ30+U...+N...	-	IIC	IIC	III

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NJ30P+U...+1N...	-	IIB/IIC	IIC	III
NJ40+...+N...	-	IIB/IIC	IIC	III
NJ50-FP-N...	-	IIA/IIB/IIC	IIC	III

6.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。

FJ6-110-N...
FJ7-N...
NBN3-F69-N0...
NBN4-V3-N0...
NBN4-V3-N0-Y189289
NCB2-V3-N0...
NCN2-F56-N1...
NCN4-V3-N0...
NJ0,8-F-N...
NJ1,5-F-N...
NJ2-V3-N...
NJ3-V3-N...

7.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。

FJ6-110-N...	FJ7-N...	NBB15-U3K-N0...	NBB15-U4K-N0...
NBB20-U3K-N0...	NBB20-U4K-N0...	NBN30-U3K-N0...	NBN30-U4K-N0...
NBN40-U3K-N0...	NBN40-U4K-N0...	NCB15+U3+N0...	NCB15+U4+N0...
NBN40-U3LK-N0...	NBN40-U4LK-N0...	NCB40-FP-N0-P4...	NCN20+U3+N0...
NCB20-L2-N0...	NCB40-FP-N0-P3...	NCN30+U4+N0...	NCN40+U3+N0...
NCN20+U4+N0...	NCN30+U3+N0...	NCN50-FP-N0-P3...	NCN50-FP-N0-P4...

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NCN40+U4+N0...	NCN40-L2-N0...	NJ15-M1-N-V...	NJ20+U3+N...
NJ15+U3+N...	NJ15+U4+N...	NJ20+U4+N...	NJ30P+U3+1N...
NJ30+U3+N...	NJ30P+U4+1N...	NJ30+U4+N...	NJ40+U4+N...
NJ40+U3+N...	NJ50-FP-N-P3...	NJ50-FP-N-P4...	

8.当用作 EPL Ga 设备时，以下型号的传感器金属含量超过允许值。在需要应用 EPL Ga 设备的危险区域，应采取适当措施确保不会发生由于撞击或摩擦效应而引起的点火危险。

NBB15-U3K-N0...	NCB15+U3+N0...	NCN50-FP-N0-P3...	NJ40+U3+N...
NBB15-U4K-N0...	NCB15+U4+N0...	NCN50-FP-N0-P4...	NJ40+U4+N...
NBB20-U3K-N0...	NCB40-FP-N0-P3...	NJ15+U3+N...	NJ50-FP-N-P3...
NBB20-U4K-N0...	NCB40-FP-N0-P4...	NJ15+U4+N...	NJ50-FP-N-P4...
NBN30-U3K-N0...	NCN20+U3+N0...	NJ20+U3+N...	
NBN30-U4K-N0...	NCN20+U4+N0...	NJ20+U4+N...	
NBN40-U3K-N0...	NCN30+U3+N0...	NJ30+U3+N...	
NBN40-U3LK-N0...	NCN30+U4+N0...	NJ30+U4+N...	
NBN40-U4K-N0...	NCN40+U3+N0...	NJ30P+U3+1N...	
NBN40-U4LK-N0...	NCN40+U4+N0...	NJ30P+U4+1N...	

本页为证书附页，应与证书主页同时使用。

批 准：

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