



中国国家强制性产品认证证书



证书编号: 2020322315002303

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 (Vietnam) Company Limited
 生产企业地址: Lot S12-16A, Street 20, Tan Thuan EPZ, Ward Tan Thuan Dong, District 7, Ho Chi Minh City, Vietnam

产品名称: 电感式传感器
 系列、规格、型号: FJ系列, NJ系列, NB系列, NC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: 2023年01月17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



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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: 2020322315002303

APPLICANT: Pepperl+Fuchs SE
ADDRESS: Lilienthalstraße 200, 68307 Mannheim, Germany
MANUFACTURER: Pepperl+Fuchs SE
ADDRESS: Lilienthalstraße 200, 68307 Mannheim, Germany
FACTORY: Pepperl+Fuchs (Vietnam) Company Limited
ADDRESS: Lot S12-16A, Street 20, Tan Thuan EPZ, Ward Tan Thuan Dong, District 7, Ho Chi Minh City, Vietnam

PRODUCT: Inductive Sensor
SERIES, SPECIFICATION, MODEL: FJ Sereis, NJ series, NB series, NC 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: January 17, 2023

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

s 0006628



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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 15 P - M1 - N0 - V - Y..	N	Inductive proximity sensor
	NJ	Inductive proximity sensor
	FJ	Inductive proximity sensor, surface shaped
N C B 15 P - M1 - N0 - V - Y..	B	Basic series with basic characteristics
	C	Comfort series with improved characteristics
	/	Blank: no specification, characters from the right will be moved left
N C B 15 P - M1 - N0 - V - Y..	B	Flush mounting
	N	Non flush mounting
	/	Blank: no specification, characters from the right will be moved left
N C B 15 P - M1 - N0 - V - Y..	0,5 - 100	Nominal sensing range in mm
N C B 15 P - M1 - N0 - V - Y..	P	Sensor to detect non ferrous metal
	/	Blank: no specification, characters from the right will be moved left
N C B 15 P - M1 - N0 - V - Y..	Enclosure details	
	-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

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-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 cable gland M20, plastic rotatable base ¹⁾
-U2LK	
-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

N C B 15 P - M1 - **N0** - V - Y...

Electrical design

N	NAMUR opening (normally close)
N0	NAMUR opening (normally close)
N1	NAMUR closing (normally open)

N C B 15 P - M1 - N0 - **VI** - Y...

Additional marking (multiple entries are possible)

C	Magnetic field resistant sensors
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

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P3 Metal base, intended for cable gland M20 x 1,5
 P4 Metal base, intended for cable gland 1/2" NPT
 0,05 – 100M Defines cable length
 / Blank: no specification, characters from the right will be moved left

N C B 15 P - M1 - N0 - 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
 Blank: no specification

1) the product may contain a type 'V...' connector or intended for cable gland.

防爆标志:

Ex ia IIC T6...T1 Ga

Ex ia IIC T6...T1 Gb

Ex ia IIIC T200 135° C Da

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					
				Ui = 16 V	li = 25 mA	Pi = 34 mW	Ui = 16 V	li = 25 mA	Pi = 64 mW	Ui = 16 V	li = 52 mA	Pi = 169 mW	Ui = 16 V	li = 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	82	77	81	84	63	63

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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
NBB20-U...K-N0...	Ga/Gb	110	200	73	88	100	66	81	100	45	60	89	30	45	74
NBN30-U...K-N0...	Ga/Gb	105	300	73	88	100	66	81	100	45	60	89	30	45	74
NBN40-U...K-N0...	Ga/Gb	105	300	73	88	100	66	81	100	45	60	89	30	45	74
NBN40-U...LK-N0...	Ga/Gb	165	130	73	88	100	66	81	100	45	60	89	30	45	74
NCN4-V3-N0...	Ga/Gb	100	100	73	88	100	66	81	100	45	60	89	30	45	74
NCB15+U...+N0...	Ga/Gb	110	160	73	88	100	66	81	100	45	60	89	30	45	74
NCN15-M...-N0...	Ga/Gb	100	100	73	88	100	66	81	100	45	60	89	30	45	74
NCB20-L2-N0...	Ga/Gb	110	200	73	88	100	66	81	100	45	60	89	30	45	74
NCN20+U...+N0...	Ga/Gb	110	160	73	88	100	66	81	100	45	60	89	30	45	74
NCN30+U...+N0...	Ga/Gb	110	160	73	88	100	66	81	100	45	60	89	30	45	74
NCB40-FP-N0...	Ga/Gb	220	360	73	88	100	66	81	100	45	60	89	30	45	74
NCN40+U...+N0...	Ga/Gb	120	130	73	88	100	66	81	100	45	60	89	30	45	74
NCN40-L2-N0...	Ga/Gb	105	300	73	88	100	66	81	100	45	60	89	30	45	74
NCN50-FP-N0...	Ga/Gb	220	360	73	88	100	66	81	100	45	60	89	30	45	74
NJ0,8-F-N...	Ga/Gb	30	50	73	88	100	67	82	100	45	60	78	30	45	57
NJ1,5-F-N...	Ga/Gb	30	50	73	88	100	67	82	100	45	60	78	30	45	57

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NJ2.5-F-N...	Ga/Gb	40	50	73	88	100	66	81	100	45	60	89	30	45	74
NJ2-F1-N...	Ga/Gb	30	50	73	88	100	66	81	100	45	60	89	30	45	74
NJ2-V3-N...	Ga/Gb	40	50	73	88	100	66	81	100	45	60	89	30	45	74
NJ3-V3-N...	Ga/Gb	40	50	73	88	100	66	81	100	45	60	89	30	45	74
NJ4-F-N...	Ga/Gb	150	100	73	88	100	66	81	100	45	60	89	30	45	74
NJ6-F-N...	Ga/Gb	70	100	73	88	100	66	81	100	45	60	89	30	45	74
NJ10-F-N...	Ga/Gb	85	100	73	88	100	66	81	100	45	60	89	30	45	74
NJ15+U...+N...	Ga/Gb	140	130	73	88	100	66	81	100	45	60	89	30	45	74
NJ15-M1...-N...	Ga/Gb	140	100	73	88	100	66	81	100	45	60	89	30	45	74
NJ20+U...+N...	Ga/Gb	150	130	73	88	100	66	81	100	45	60	89	30	45	74
NJ30+U...+N...	Ga/Gb	160	130	73	88	100	66	81	100	45	60	89	30	45	74
NJ30P+U...+1N...	Ga/Gb	150	170	73	88	100	66	81	100	45	60	89	30	45	74
NJ40+...+N...	Ga/Gb	180	130	73	88	100	66	81	100	45	60	89	30	45	74
NJ50-FP-N...	Ga/Gb	320	360	73	88	100	66	81	100	45	60	89	30	45	74

● 可燃性粉尘环境

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]
FJ6-110-N...	150	110	100	100	63	not applicable
FJ7-N...	65	220	100	100	63	applicable
NCB2-F1-N0...	90	100	100	100	71	applicable

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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： 2022S17402-009705

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附件

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 2.5 条。

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
FJ6-110-N...	IIB/IIC	IIC	III
FJ7-N...	IIC	-	III
NCB2-F1-NO...	IIC	-	-
NCB2-V3-NO...	IIC	-	-
NCN2-F56-N1...	IIC	-	-
NBN3-F69-NO...	IIC	-	-
NBN4-V3-NO...	IIC	-	-
NBN4-V3-NO-Y189289	IIC	-	-
NBB15-U...K-NO...	IIC	IIC	III
NBB20-U...K-NO...	IIC	IIC	III
NBN30-U...K-NO...	IIC	IIC	III
NBN40-U...K-NO...	IIC	IIC	III
NBN40-U...LK-NO...	IIA/IIB/IIC	IIC	III
NCN4-V3-NO...	IIC	-	-
NCB15+U...+NO...	IIC	IIC	III
NCN15-M...-NO...	IIC	-	III
NCB20-L2-NO...	IIC	-	III

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NCN20+U...+NO...	IIC	IIC	III
NCN30+U...+NO...	IIC	IIC	III
NCB40-FP-NO...	IIA/IIB/IIC	IIC	III
NCN40+U...+NO...	IIB/IIC	IIC	III
NCN40-L2-NO...	IIC	-	III
NCN50-FP-NO...	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
NJ30P+U...+1N...	IIB/IIC	IIC	III
NJ40+...+N...	IIB/IIC	IIC	III
NJ50-FP-N...	IIA/IIB/IIC	IIC	III

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。

FJ6-110-N...

FJ7-N...

NBN3-F69-NO...

NBN4-V3-NO...

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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...

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。

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...
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-	

7) 当产品作为 EPL Ga 等级设备使用时，下列型号产品的轻金属含量超过 GB/T 3836.1-2021 标准允许值，应采取适当措施确保不会发生因冲击或摩擦引起的点燃危险。

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

批准:



上海仪器仪表自控系统检验测试所有限公司



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附件

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