中国国家强制性产品认证证书

证书编号：2020322315002308

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
PT. Pepperl and Fuchs Bintan
SD56/57 Jalan Asoka BIIE, Bintan Industrial Estate Pulau Bintan, Kepulauan Riau, Republic of Indonesia

产品名称和系列、型号、规格
电感式传感器
SN 型 NJ 系列，SN 型 SJ 系列，SN 型 NB 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.: 2020322315002308

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
PT. Pepperl and Fuchs Bintan
SD56/57 Jalan Asoka BIIE,
Bintan Industrial Estate Pulau Bintan, Kepulauan Riau, Republic of Indonesia

NAME, SERIES, MODEL AND SPECIFICATION
Inductive Sensor
SN Type NJ series, SN Type SJ series, SN type NB 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：2020322315002308

证书附页：第 1 页 共 9 页

产品名称：
电感式传感器

型号规格：

Type code example:

I	II	III	IV	V	VI	VII	VIII	VIII	IX	X
N	C	B	15	- 30	- G	K	- SN	- G	- a…	- Y…

Position	Topic	Indicator	Description
I	**Sensor type**	N	Inductive proximity sensor
		NJ	Inductive proximity sensor
		SJ	inductive slot sensor
II	**Sensor series**	B	Basic series with basic characteristics
		C	Comfort series with improved characteristics
			Blank: no specification, characters from the right will be moved left
III	**Sensor flush variants**	B	Flush mounting
		N	Non flush mounting
			Blank: no specification, characters from the right will be moved left
IV	**Sensing range**	0,5 - 100	Nominal sensing range in mm, resp. slot width in mm in case of slot sensors

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中国国家强制性产品认证证书

证书编号：2020322315002308

V	**Sensor diameter**	30	Sensor diameter in mm for cylindrical design
			Blank: no specification, characters from the right will be moved left
VI	**Enclosure details**	G	Cylindrical sensor housing with external thread
		FP	Surface mount design; square sensing face, plug version
		U1	Plastic base, intended for cable gland M20 x 1,5; surface mount design
		U2	Plastic base, intended for cable gland ½ NPT; surface mount design
		U3	Metal base, intended for cable gland M20 x 1,5; surface mount design
		U4	Metal base, intended for cable gland ½ NPT; surface mount design
			Blank: no specification, characters from the right will be moved left
	Enclosure details	M	Metal sensor housing
		K	Plastic sensor housing
			Blank: no specification, characters from the right will be moved left
VIII	**Electrical design**	SN	NAMUR design in safety technology; (normally close)

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中国国家强制性产品认证证书

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		S1N	NAMUR design in safety technology; (normally open)
		N	NAMUR opening (normally close)
		N1	NAMUR closing (normally open)
XI	**Additional marking** (multiple entries possible)	G	Sensor housing of plastic covered by a threaded metal-barrel
			Details about the base for FP-models:
		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 – 100M	Defines cable length
			Blank: no specification, characters from the right will be moved left
IX	**Special design variants**		Blank: no specification
		a…	The "a…" will be replaced by any combination of letters or numbers which are related to specific customer design without safety relevance eg. brand label
		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

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中国国家强制性产品认证证书

证书编号：2020322315002308

			customer design without specific safety relevance e.g. color, connection detail, increased EMC

防爆标志：

Ex ia ⅡC T6...T1 Ga

Ex ia ⅡC T6...T1 Gb

Ex ia ⅢC T_{200}135℃ 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**
NB…-U…K-SN…	Ga/Gb	150	150	75	90	100	75	90	100	70	85	95	70	80	80
NB…-U…K-S1N…	Ga/Gb	150	150	75	90	100	75	90	100	70	85	95	70	80	80
NJ2-11-SN...	Ga/Gb	50	150	73	88	100	66	81	100	45	60	89	30	45	74
NJ2-11-SN-G...	Ga/Gb	50	150	76	91	100	73	88	100	62	77	81	54	63	63
NJ2-12GK-SN...	Ga/Gb	50	150	73	88	100	69	84	100	51	66	80	39	54	61
NJ3-18GK-S1N...	Ga/Gb	70	200	73	88	100	69	84	100	51	66	80	39	54	61

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中国国家强制性产品认证证书

证书编号：2020322315002308

NJ4-12GK-SN...	Ga/Gb	70	150	73	88	100	69	84	100	51	66	80	39	54	61
NJ5-18GK-SN...	Ga/Gb	120	200	73	88	100	69	84	100	51	66	80	39	54	61
NJ5-30GK-S1N...	Ga/Gb	100	200	73	88	100	69	84	100	51	66	80	39	54	61
NJ6-22-SN...	Ga/Gb	110	150	73	88	100	69	84	100	51	66	80	39	54	61
NJ6-22-SN-G...	Ga/Gb	110	150	76	91	100	73	88	100	62	77	81	54	63	63
NJ6S1+U...+N...	Ga/Gb	180	150	73	88	100	69	84	100	51	66	80	39	54	61
NJ8-18GK-SN...	Ga/Gb	120	200	73	88	100	69	84	100	51	66	80	39	54	61
NJ10-30GK-SN...	Ga/Gb	120	150	73	88	100	69	84	100	51	66	80	39	54	61
NJ15-30GK-SN...	Ga/Gb	120	180	73	88	100	69	84	100	51	66	80	39	54	61
NJ15S+U...+N...	Ga/Gb	180	150	73	88	100	66	81	100	45	60	89	30	45	74
NJ20S+U...+N...	Ga/Gb	200	150	73	88	100	66	81	100	45	60	89	30	45	74
NJ40-FP-SN...	Gb	370	300	73	88	100	66	81	100	45	60	89	30	45	74
SJ2-SN...	Ga/Gb	30	100	73	88	100	66	81	100	45	60	78	30	45	57
SJ2-S1N...	Ga/Gb	60	100	73	88	100	66	81	100	45	60	78	30	45	57
SJ3,5-S1N...	Ga/Gb	30	100	73	88	100	66	81	100	45	60	89	30	45	74
SJ3,5-SN...	Ga/Gb	30	100	73	88	100	66	81	100	45	60	89	30	45	74

爆炸性粉尘环境

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			

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中国国家强制性产品认证证书

证书编号：2020322315002308

Type	Ci [nF]	Li [µH]	T [°C]	T [°C]	T [°C]	T [°C]
NB…-U…K-SN…	150	150	100	100	80	not applicable
NB…-U…K-S1N…	150	150	100	100	80	
NJ2-11-SN...	50	150	100	100	71	
NJ2-11-SN-G...	50	150	100	100	63	
NJ2-12GK-SN...	50	150	100	100	62	
NJ3-18GK-S1N...	70	200	100	100	62	
NJ4-12GK-SN...	70	150	100	100	62	
NJ5-18GK-SN...	120	200	100	100	62	
NJ5-30GK-S1N...	100	200	100	100	62	
NJ6-22-SN...	110	150	100	100	62	
NJ6-22-SN-G...	110	150	100	100	63	
NJ6S1+U...+N...	180	150	100	100	62	
NJ8-18GK-SN...	120	200	100	100	62	
NJ10-30GK-SN...	120	150	100	100	62	
NJ15-30GK-SN...	120	180	100	100	62	
NJ15S+U...+N...	180	150	100	100	71	
NJ20S+U...+N...	200	150	100	100	71	
NJ40-FP-SN...	370	300	100	100	71	
SJ2-SN...	30	100	100	100	59	
SJ2-S1N...	60	100	100	100	59	
SJ3,5-S1N...	30	100	100	100	71	
SJ3,5-SN...	30	100	100	100	71	

相关报告编号：

2022S17402-009700，2024S17402-013598

使用条件：

特殊（限制）使用条件：

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中国国家强制性产品认证证书

证书编号：2020322315002308

1．产品最低使用环境温度-60℃。产品连接电路，最高环境温度，温度组别以及内部有效阻抗，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。

型号	II类(EPL Ga)	II类 (EPL Gb)	III类
NB…-U…K-SN…	IIC	IIC	III
NB…-U…K-S1N…	IIC	IIC	III
NJ2-11-SN...	-	-	-
NJ2-11-SN-G...	-	-	-
NJ2-12GK-SN...	-	-	-
NJ3-18GK-S1N...	IIC	-	III
NJ4-12GK-SN-Y197959	IIC	-	-
NJ4-12GK-SN-Y197960	IIC	-	-
NJ4-12GK-SN...	-	-	-
NJ5-18GK-SN...	IIC	-	III
NJ5-30GK-S1N...	IIC	-	III
NJ6-22-SN...	IIC	-	III
NJ6-22-SN-G...	-	-	-
NJ6S1+U...+N...	IIC	IIC	III
NJ8-18GK-SN...	IIC	-	-
NJ10-30GK-SN...	IIC	-	III
NJ15-30GK-SN...	IIC	-	III
NJ15S+U...+N...	IIC	IIC	III
NJ20S+U...+N...	IIC	IIC	III

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证书编号：2020322315002308

NJ40-FP-SN...	not permitted	IIC	III
SJ2-SN...	-	-	-
SJ2-S1N...	-	-	-
SJ3,5-S1N...	-	-	III
SJ3,5-SN...	-	-	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。

SJ2-SN...
SJ2-S1N...
SJ3,5-S1N...
SJ3,5-SN...

6．对于下列型号，必须避免金属外壳产生静电积累。静电积累可通过将这些零件接地来避免，而金属外壳的非常小的零件（例如螺钉）不需要接地。

NBB15-U4K-SN...
NBB15-U4K-S1N...
NJ2-11-SN-G...
NJ6-22-SN-G...
NJ6S1+U3+N...
NJ6S1+U4+N...
NJ15S+U3+N...
NJ15S+U4+N...
NJ20S+U3+N...
NJ20S+U4+N...
NJ40-FP-SN-P3...
NJ40-FP-SN-P4...

7．当用作 EPL Ga 设备时，下列型号的金属含量的超过了最大允许值。在需要使用 EPL Ga 设备的危险区域，应采取适当措施确保不会发生因冲击或摩擦效应引起的点火危险。

NB...-U3K-SN...
NB...-U4K-SN...
NB...-U3K-S1N...

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中国国家强制性产品认证证书

证书编号：2020322315002308

NB...-U4K-S1N...
NJ6S1+U3+N...
NJ6S1+U4+N...
NJ15S+U3+N...
NJ15S+U4+N...
NJ20S+U3+N...
NJ20S+U4+N...

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