



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: Pepperl+Fuchs SE
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 生产者名称: Pepperl+Fuchs SE
 生产者地址: Lilienthalstraße 200, 68307 Mannheim, Germany
 生产企业名称: PT. Pepperl and Fuchs Bintan
 企业地址: SD56/57 Jalan Asoka B11E, Bintan Industrial Estate Pulau Bintan, Kepulauan Riau, Republic of Indonesia

产品名称: 电感式传感器
 系列、规格、型号: SN 型 NJ 系列, SN 型 SJ 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 02 月 13 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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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION



CERTIFICATE NO: 2020322315002308

APPLICANT: Pepperl+Fuchs SE
ADDRESS: Lilienthalstraße 200, 68307 Mannheim, Germany
MANUFACTURER: Pepperl+Fuchs SE
ADDRESS: Lilienthalstraße 200, 68307 Mannheim, Germany
FACTORY: PT. Pepperl and Fuchs Bintan
ADDRESS: SD56/57 Jalan Asoka BIIE,
 Bintan Industrial Estate Pulau Bintan, Kepulauan Riau,
 Republic of Indonesia

PRODUCT: Inductive Sensor
SERIES, SPECIFICATION, MODEL: SN Type NJ series, SN Type SJ 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: February 13, 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.

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S 0006775



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附件

产品名称: 电感式传感器

型号规格:

NJ 10 - 30 G K - SN - G - Y...	NJ	inductive proximity sensor
	SJ	inductive slot sensor
NJ 10 - 30 G K - SN - G - Y...	0,5 - 50	Nominal sensing range in mm or slot width in mm for slot sensors
NJ 10 - 30 G K - SN - G - Y...	2 - 50	Sensor diameter in mm for cylindrical design
	/	Blank: no specification, characters from the right will be moved left
NJ 10 - 30 G K - SN - G - Y...	G	Sensor housing with external thread
	+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
	-FP	surface mount design; square sensing face, plug version
	/	Blank: no specification, characters from the right will be moved left
NJ 10 - 30 G K - SN - G - Y...	M	Metal sensor housing
	K	Plastic sensor housing
	/	Blank: no specification, characters from the right will be moved left
NJ 10 - 30 G K - SN - G - Y...	Electrical design	
	SN	NAMUR design in safety technology; normally close
	S1N	NAMUR design in safety technology; normally open
	N	NAMUR design; normally close
	N1	NAMUR design; normally open

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NJ 10 S -30 GK - G - Y...

S

NAMUR design in safety technology; normally close

S1

NAMUR design in safety technology; normally open

/

Blank: no specification, characters from the right will be moved left

NJ 10 - 30 GK - SN - G - Y...

Additional marking (multiple entries are possible)

G

Sensor housing of plastic covered by a threaded metal-barrel

Details about the base for FP-models:

P1

Plastic, intended for cable gland M20 x 1,5

P2

Plastic, 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

NJ 10 - 30 GK - SN - G - 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 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		
				Ui = 16 V			Ui = 16 V			Ui = 16 V			Ui = 16 V		
				Ii = 25 mA			Ii = 25 mA			Ii = 52 mA			Ii = 76 mA		
				Pi = 34 mW			Pi = 64 mW			Pi = 169 mW			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
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
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

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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

● 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 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	
Type	Ci [nF]	Li [μH]	T [°C]	T [°C]	T [°C]	T [°C]
NJ2-11-SN...	50	150	100	100	71	not applicable
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	

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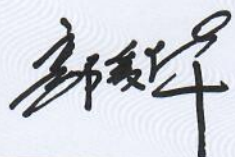


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NJ10-30GK-SN...	120	150	100	100	62
NJ15-30GK-SN...	120	180	100	100	62
NJ15S+U...+N...	180	150	100	100	71
NJ20S+U...+N...	200	150	100	100	71
NJ40-FP-SN...	370	300	100	100	71
SJ2-SN...	30	100	100	100	59
SJ2-S1N...	60	100	100	100	59
SJ3,5-S1N...	30	100	100	100	71
SJ3,5-SN...	30	100	100	100	71

相关报告编号： 2022S17402-009698

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附件

使用条件：

- 特殊（限制）使用条件：
 - 产品连接电路，最高环境温度以及温度组别，详见电气参数。
 - 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。
 - 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。
 - 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
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

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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
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。

NJ2-11-SN-G...

NJ6-22-SN-G...

NJ6S1+U3+N...

NJ6S1+U4+N...

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附 件

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。

NJ6S1+U3+N...

NJ6S1+U4+N...

NJ15S+U3+N...

NJ15S+U4+N...

NJ20S+U3+N...

NJ20S+U4+N...

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