



中国国家强制性产品认证证书



证书编号: 2020322315002306

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: PT. Pepperl and Fuchs Bintan
 生产企业地址: 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: SJ系列, SC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09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



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: 2020322315002306

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: SJ series, SC 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 9, 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



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附 件

产品名称：电感式传感器

型号规格：SJ 系列，SC 系列

		Sensor type	
SJ	5 - K - N -Y...- BU	SJ	Inductive slot sensor
		SC	Inductive slot sensor
SJ	5 - K - N -Y...- BU	2 - 50	Slot width in mm
SJ	5 - K - N -Y...- BU	K	Housing description (if different from standard)
		G	Metal-Thread insert
		H	Different hysteresis as standard
		/	Blank: no specification, characters from the right will be moved left
		Electrical design	
SJ	5 - K - N -Y...- BU	N	Namur; opening (normally closed)
		NO	Namur; opening (normally closed)
		N1	Namur; closing (normally open)
		Additional marking (multiple entries are possible)	
SJ	5 - K - N -Y...- BU	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

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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

K37 Customised segment disk, without safety relevance

LED with LED

0,05 - 100M Defines wire or cable length

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

SJ 5 - K - N -Y...- BU ... '...' will be replaced by a combination of two letters e.g. BU stands for blue: colored marking of the hysteresis range
/ Blank: no specification

防爆标志:

Ex ia IIC T6...T1 Ga

Ex ia IIC T6...T1 Gb

Ex ia IIIC T200135° 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 $U_i = 16\text{ V}$ $I_i = 25\text{ mA}$ $P_i = 34\text{ mW}$			power type 2 $U_i = 16\text{ V}$ $I_i = 25\text{ mA}$ $P_i = 64\text{ mW}$			power type 3 $U_i = 16\text{ V}$ $I_i = 52\text{ mA}$ $P_i = 169\text{ mW}$			power type 4 $U_i = 16\text{ V}$ $I_i = 76\text{ mA}$ $P_i = 242\text{ mW}$		
maximum permissible ambient temperature in °C for application in temperature class															
Type	EPL	C_i [nF]	L_i [μH]	T6	T5	T4- T1	T6	T5	T4- T1	T6	T5	T4- T1	T6	T5	T4- T1
SC2-N0...	Ga/Gb	150	150	72	87	100	65	80	100	40	55	75	23	38	54
SC3,5-N0-Y...	Ga/Gb	150	150	72	87	100	65	80	100	40	55	75	23	38	54
SC3,5...-N0...	Ga/Gb	150	150	73	88	100	66	81	100	45	60	89	30	45	74
SJ1,8-N-Y...	Gb	30	100	73	88	100	67	82	100	45	60	78	30	45	57
SJ2,2-N...	Gb	30	100	73	88	100	67	82	100	45	60	78	30	45	57
SJ2-N...	Ga/Gb	30	100	73	88	100	67	82	100	45	60	78	30	45	57
SJ3,5...-N...	Ga/Gb	50	250	73	88	100	66	81	100	45	60	89	30	45	74
SJ3,5-H...	Gb	50	250	73	88	100	66	81	100	45	60	89	30	45	74
SJ5...-N...	Ga/Gb	50	250	73	88	100	66	81	100	45	60	89	30	45	74
SJ5-K...	Ga/Gb	50	550	72	87	100	66	81	100	42	57	82	26	41	63
SJ10-N...	Ga/Gb	50	1000	72	87	100	66	81	100	42	57	82	26	41	63
SJ15-N...	Ga/Gb	150	1200	72	87	100	66	81	100	42	57	82	26	41	63
SJ30-N...	Ga/Gb	150	1250	72	87	100	66	81	100	42	57	82	26	41	63

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● 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]
SC2-N0...	150	150	100	99	57	not applicable
SC3,5-N0-Y...	150	150	100	99	57	
SC3,5...-N0...	150	150	100	100	71	
SJ1,8-N-Y...	30	100	100	100	59	
SJ2,2-N...	30	100	100	100	59	
SJ2-N...	30	100	100	100	59	
SJ3,5...-N...	50	250	100	100	71	
SJ3,5-H...	50	250	100	100	71	
SJ5...-N...	50	250	100	100	71	
SJ5-K...	50	550	100	100	63	
SJ10-N...	50	1000	100	100	63	
SJ15-N...	150	1200	100	100	63	
SJ30-N...	150	1250	100	100	63	

相关报告编号： 2022S17402-009487

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使用条件：

1. 特殊（限制）使用条件：
 - 1) 产品电路参数，最高环境温度以及温度组别的关系详见本附件“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)	Group II (EPL Gb)	III类
SC2-N0...	-	-	-
SC3,5-N0-Y...	-	-	III
SC3,5...-N0...	-	-	III
SJ1,8-N-Y...	not permitted	-	III
SJ2,2-N...	not permitted	-	-
SJ2-N...	-	-	-
SJ3,5...-N...	-	-	III
SJ3,5-H...	not permitted	-	-
SJ5...-N...	-	-	III
SJ5-K...	IIC	-	III
SJ10-N...	IIC	-	III
SJ15-N...	IIC	-	III
SJ30-N...	IIA/IIB/IIC	IIC	III

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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。

SC2-N0...

SC3, 5-N0-Y...

SC3, 5...-N0...

SJ1, 8-N-Y...

SJ2-N-Y34361

SJ2-N-Y43896

SJ2-N-Y43897

SJ3, 5-...-N...

SJ3, 5-H...

SJ5-...-N...

SJ5-K...

SJ10-N...

SJ15-N...

SJ30-N...

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