中国国家强制性产品认证证书

证书编号：2024322315005948

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 (Vietnam) Company Limited
Lot S.12-16a, Street no. 20, Tan Thuan Export Processing Zone, Tan Thuan Ward, Ho Chi Minh City, Vietnam

产品名称和系列、型号、规格
电感式传感器
***-*-*-*-*-*-*

产品标准和技术要求
GB/T 3836.1-2021、GB/T 3836.3-2021

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:2026 年 03 月 05 日　有效期至:2029 年 05 月 14 日

首次发证日期:2024 年 05 月 15 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.: 2024322315005948

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 (Vietnam) Company Limited
Lot S.12-16a, Street no. 20, Tan Thuan Export Processing Zone, Tan Thuan Ward,
Ho Chi Minh City, Vietnam

NAME, SERIES, MODEL AND SPECIFICATION
Inductive Sensor
***-*-*-*-*-*-*

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS
GB/T 3836.1-2021、GB/T 3836.3-2021

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:2026-03-05 Valid until:2029-05-14

Date of initial issue:2024-05-15
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：2024322315005948

产品名称：
电感式传感器

型号规格：
FP 系列

Basic type

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

N Inductive proximity sensor

Sensor series

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

B Basic series with basic characteristics

C Comfort series with improved characteristics

Mounting conditions

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

B Flush

N Non-flush

Operating distance

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

x Operating distance in mm
(decimal separator is comma or dot)

Mechanical design

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

FP Cubical enclosure shape version

Electrical output

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

A2 4-Wire, DC, PNP, Antivalent

Special feature

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

P1 Terminal base type

Connection element

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

V1 M12 x 1 device connector for DC proximity switches

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批 准：

上海仪器仪表自控系统检验测试所有限公司

中国国家强制性产品认证证书

证书编号：2024322315005948

Approvalindicator for EPL Gc

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

3G Approval indicator for EPL Gc

Approvalindicator for EPL Dc (optional)

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

/ Blank: no 3D product

3D Approval indicator for EPL Dc

Customer specific versions

NCB 20 - FP - A2 - P1 - V1 - 3G - 3D - ...

... Any letter or number combination as indicator for custom specific variants without impact on approval (optional)

/ Blank: no specification

VariKont ® U1K 系列

Basic type

NBB 20 - U1K - E2 - … - … - 3G - 3D - ...

N Inductive proximity sensor

Sensor series

NBB 20 - U1K - E2 - … - … - 3G - 3D - ...

B Basic series with basic characteristics

C Comfort series with improved characteristics

Mounting conditions

NBB 20 - U1K - E2 - … - … - 3G - 3D - ...

B Flush

N Non-flush

Operating distance

NBB 20 - U1K - E2 - … - … - 3G - 3D - ...

x Operating distance in mm (decimal separator is comma or dot)

Mechanical design

NBB 20 - U1K - E2 - … - … - 3G - 3D - ...

U1K VariKont ® polymeric base with M20x1,5 thread and polymeric rotary socket

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批 准：

上海仪器仪表自控系统检验测试所有限公司

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

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证书编号：2024322315005948

Electrical output

NBB 20 -U1K-E2-…-…-3G- 3D - ...

E2 3-Wire, DC, PNP, NO

Special feature

NBB 20 -U1K-E2-…-…-3G- 3D - ...

/ Blank: no special feature

Connection element (optional)

NBB 20 -U1K-E2-…-…-3G- 3D - ...

/ Blank: no connection element

Approvalindicator for EPL Gc

NBB 20 -U1K-E2-…-…-3G- 3D - ...

3G Approval indicator for EPL Gc

Approvalindicator for EPL Dc (optional)

NBB 20 -U1K-E2-…-…-3G- 3D - ...

/ Blank: no 3D product

3D Approval indicator for EPL Dc

Customer specific versions

NBB 20 -U1K-E2-…-…-3G- 3D - ...

... Any letter or number combination as indicator for custom specific variants without impact on approval (optional)

/ Blank: no specification

VariKont ® L2 系列

Basic type

NBB 20 - L2 - A2 - … - V1 - 3G- 3D - ...

N Inductive proximity sensor

Sensor series

NBB 20 - L2 - A2 - … - V1 - 3G- 3D - ...

B Basic series with basic characteristics

C Comfort series with improved characteristics

本页为证书附页，应与证书主页同时使用。

批 准：

上海仪器仪表自控系统检验测试所有限公司

中国国家强制性产品认证证书

证书编号：2024322315005948

N B **B** 20 - L2 - A2 - … - V1 - 3G - 3D - …	**Mounting conditions**	
	B	Flush
	N	Non-flush
N B B **20** - L2 - A2 - … - V1 - 3G - 3D - …	**Operating distance**	
	x	Operating distance in mm (decimal separator is comma or dot)
N B B 20 - **L2** - A2 - … - V1 - 3G - 3D - …	**Mechanical design**	
	L2	VariKont ® L – Polymeric enclosure
N B B 20 - L2 - **A2** - … - V1 - 3G - 3D - …	**Electrical output**	
	A2	4-Wire, DC, PNP, Antivalent
	E2	3-Wire, DC, PNP, NO
N B B 20 - L2 - A2 - **…** - V1 - 3G - 3D - …	**Special feature**	
	/	Blank: no special feature
N B B 20 - L2 - A2 - … - **V1** - 3G - 3D - …	**Connection element**	
	V1	M12 x 1 device connector for DC proximity switches
N B B 20 - L2 - A2 - … - V1 - **3G** - 3D - …	**Approvalindicator for EPL Gc**	
	3G	Approval indicator for EPL Gc
N B B 20 - L2 - A2 - … - V1 - 3G - **3D** - …	**Approvalindicator for EPL Dc (Optional)**	
	/	Blank: no 3D product
	3D	Approval indicator for EPL Dc
N B B 20 - L2 - A2 - … - V1 - 3G - 3D - **…**	**Customer specific versions**	
	…	Any letter or number combination as indicator for custom specific variants without impact on approval (optional)

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批 准：

上海仪器仪表自控系统检验测试所有限公司

中国国家强制性产品认证证书

证书编号：2024322315005948

/ Blank: no specification

PMI 系列

Basic type

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... PMI Position measuring inductive sensor

Measuring Range

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... x Operating distance in mm (decimal separator is comma or dot)

Mechanical design

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... F90 Enclosure design

Electrical output

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... IU2EP 3-Wire, DC, Current/Voltage, Analog and 4-Wire, DC, NPN/PNP, Push-Pull

Special feature

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... / Blank: no special feature

Connection element

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... V15 M12 x 1 device connector for DC proximity switches

Approvalindicator for EPL Gc

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... 3G Approval indicator for EPL Gc

Approvalindicator for EPL Dc (Optional)

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... / Blank: no 3D product

3D Approval indicator for EPL Dc

Customer specific versions

PMI 40-F90-IU2EP-IO-V15-3G- 3D -... ... Any letter or number combination as indicator for custom specific variants without impact on approval

本页为证书附页，应与证书主页同时使用。

批 准：

上海仪器仪表自控系统检验测试所有限公司

中国国家强制性产品认证证书

证书编号：2024322315005948

		(optional)
	/	Blank: no specification

V3 系列

N B B 20 - V3 - E2 - … - V1 - 3G - 3D - ...

Basic type

N	Inductive proximity sensor

N B B 20 - V3 - E2 - … - V1 - 3G - 3D - ...

Sensor series

B	Basic series with basic characteristics
C	Comfort series with improved characteristics

N B B 20 - V3 - E2 - … - V1 - 3G - 3D - ...

Mounting conditions

B	Flush
N	Non-flush

N B B 20 - V3 - E2 - … - V1 - 3G - 3D - ...

Operating distance

x	Operating distance in mm (decimal separator is comma or dot)

N B B 20 - V3 - E2 - … - V1 - 3G - 3D - ...

Mechanical design

V3	Cubical enclosure shape version

N B B 20 - V3 - E2 - … - V1 - 3G - 3D - ...

Electrical output

E2	3-Wire, DC, PNP, NO
Z4	2-wire, DC, NO, reverse polarity protected
Z4L	2-wire, DC

N B B 20 - V3 - E2 - … - V1 - 3G - 3D - ...

Special feature

/	Blank: no special feature

N B B 20 - V3 - E2 - … - V1 - 3G - 3D - ...

Connection element

V1	M12 x 1 device connector for DC proximity switches

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批 准：

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

中国国家强制性产品认证证书

证书编号：2024322315005948

Approvalindicator for EPL Gc

NBB 20 - V3 - E2 - … - V1 - 3G - 3D - ...

3G Approval indicator for EPL Gc

Approvalindicator for EPL Dc (Optional)

NBB 20 - V3 - E2 - … - V1 - 3G - 3D - ...

/ Blank: no 3D product

3D Approval indicator for EPL Dc

Customer specific versions

NBB 20 - V3 - E2 - - V1 - 3G - 3D - ...

... Any letter or number combination as indicator for custom specific variants without impact on approval (optional)

/ Blank: no specification

防爆标志：

Ex ec ⅡC T6…T1 Gc

电气参数：

型号规格代码									最高使用环境温度 °C					
1	2	3	4	5	6	7	8	9	30 Vdc 最大负载电流			60 Vdc 最大负载电流		9 Vdc 串联最小 562 Ω (NAMUR)
									30 mA	100 mA	200 mA	30 mA	100 mA	
NCB	x	-FP	-A2	-P1		-3G	-x	-x	57	56	53	48	47	N/A
NCN	x	-FP	-A2	-P1		-3G	-x	-x	57	56	53	48	47	N/A
NBB	x	-U1K	-E2			-3G	-x	-x	54	52	50	N/A	N/A	N/A
NBB	x	-U1K	-E2			-3G	-x	-x	54	52	50	N/A	N/A	N/A
NBN	x	-L2	-A2		-V1	-3G	-x	-x	54	53	50	N/A	N/A	N/A
NBN	x	-L2	-E2		-V1	-3G	-x	-x	55	54	51	N/A	N/A	N/A
NCB	x	-L2	-E2		-V1	-3G	-x	-x	55	54	51	N/A	N/A	N/A
NCN	x	-L2	-A2		-V1	-3G	-x	-x	54	53	50	N/A	N/A	N/A

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NCB	x	-L2	-N0		-V1			-x	N/A	N/A	N/A	N/A	N/A	65
NCN	x	-L2	-N0		-V1			-x	N/A	N/A	N/A	N/A	N/A	65
NBB	x	-V3	-E2			-3G	-x	-x	46	45	N/A	N/A	N/A	N/A
NBB	x	-V3	-Z4			-3G	-x	-x	N/A	N/A	N/A	56	41	N/A
NBB	x	-V3	-Z4L			-3G	-x	-x	60	N/A	N/A	N/A	N/A	N/A
NBN	x	-V3	-E2			-3G	-x	-x	46	45	N/A	N/A	N/A	N/A

型号规格代码									最高使用环境温度 °C	
									双开关单元 每个 I_{Lmax}= 100 mA	单开关单元 I_{Lmax}= 100 mA
1	2	3	4	5	6	7	8	9	1 路模拟输出： U_{Amax} = 10 V AC I_{Amax} = 20 mA	路模拟输出： N/A
PMI	40	-F90	-IU2EP	-IO	-V15	-3G	-x	-x	32	50
PMI	80	-F90	-IU2EP	-IO	-V15	-3G	-x	-x	37	51
PMI	120	-F90	-IU2EP	-IO	-V15	-3G	-x	-x	37	50

相关报告编号：
2023S17402-012750

使用条件：

1.产品使用环境温度范围：-25℃≤Ta≤Ta_{max}，其中 Ta_{max}（最高使用环境温度）见电气参数; 气体温度组别 T6、T5、T4、T3、T2 以及 T1 的产品应用环境没有差异。

2. 产品在现场安装时，应考虑其环境参数，详见 IECEx TUR 21.0019X 附件 技术数据以及产品说明书。

3. 产品在现场安装时，应注意避免其直接受到紫外线照射，详见产品说明书。

4. 产品在现场安装时，应注意采取可靠措施防止其受到机械损坏，详见产品说明书。

5. N**-L2-*-V1-*-*-*, PMI*-F90-V15-3G-*-*, NC**-FP-A2-P1-3G-*-* 和 NB**-

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批 准：

上海仪器仪表自控系统检验测试所有限公司

中国国家强制性产品认证证书

证书编号：2024322315005948

U1K-E2-3G-*-*型产品在现场使用时严禁带电接通或断开。

6. N**-L2-*-V1-*-*-*和 PMI*-F90-V15-3G-*-*型产品的插接连接装置应符合 GB/T 3836.15 的相关要求，其外壳防护等级应不低于 GB/T 3836.1 所规定的 IP54 等级，详见产品说明书。

7. 瞬态保护应提供不超过设备的供电端子额定峰值电压值 140%的保护。

8.产品外壳防护等级（IP 代码）：IP64。

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批 准：

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