



中国国家强制性产品认证证书

证书编号: 2024322315005962

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
***_*_*_*_*_*_*_*

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:2024年05月17日 有效期至:2029年05月16日

首次发证日期:2024年05月17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:

郭敬华



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.: 2024322315005962

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
***_**_*_*_*_*_*_*

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: : 2024-05-17 Valid until:2029-05-16

Date of initial issue:2024-05-17

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.



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产品名称：
电感式传感器

型号规格：
FP 系列

N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ...	Basic type N Inductive proximity sensor
N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ...	Sensor series B Basic series with basic characteristics C Comfort series with improved characteristics
N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ...	Mounting conditions B Flush N Non-flush
N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ...	Operating distance x Operating distance in mm (decimal separator is comma or dot)
N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ...	Mechanical design FP Cubical enclosure shape version
N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ...	Electrical output A2 4-Wire, DC, PNP, Antivalent
N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ...	Special feature P1 Terminal base type
N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ...	Connection element V1 M12 x 1 device connector for DC proximity switches

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证书附页：第2页共9页

Approval indicator for EPL Gc
 N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ... 3G Approval indicator for EPL Gc

Approval indicator for EPL Dc (optional)
 N C B 20 - FP - A2 - P1 - V1 - 3G - 3D - ... / Blank: no 3D product
 3D Approval indicator for EPL Dc

Customer specific versions
 N C B 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
 N B B 20 - U1K - E2 - ... - ... - 3G - 3D - ... N Inductive proximity sensor

Sensor series
 N B B 20 - U1K - E2 - ... - ... - 3G - 3D - ... B Basic series with basic characteristics
 C Comfort series with improved characteristics

Mounting conditions
 N B B 20 - U1K - E2 - ... - ... - 3G - 3D - ... B Flush
 N Non-flush

Operating distance
 N B B 20 - U1K - E2 - ... - ... - 3G - 3D - ... x Operating distance in mm (decimal separator is comma or dot)

Mechanical design
 N B B 20 - U1K - E2 - ... - ... - 3G - 3D - ... U1K VariKont® polymeric base with M20x1,5 thread and polymeric rotary socket

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N B B 20 -U1K- E2 - ... -3G- 3D - ...	Electrical output E2 3-Wire, DC, PNP, NO
N B B 20 -U1K- E2 - ... -3G- 3D - ...	Special feature / Blank: no special feature
N B B 20 -U1K- E2 - ... -3G- 3D - ...	Connection element (optional) / Blank: no connection element
N B B 20 -U1K- E2 - ... -3G- 3D - ...	Approvalindicator for EPL Gc 3G Approval indicator for EPL Gc
N B B 20 -U1K- E2 - ... -3G- 3D - ...	Approvalindicator for EPL Dc (optional) / Blank: no 3D product 3D Approval indicator for EPL Dc
N B B 20 -U1K- E2 - ... -3G- 3D - ...	Customer specific versions ... Any letter or number combination as indicator for custom specific variants without impact on approval (optional) / Blank: no specification

VariKont® L2 系列

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...	Basic type N Inductive proximity sensor
N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...	Sensor series B Basic series with basic characteristics C Comfort series with improved characteristics

Mounting conditions

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N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
B Flush
N Non-flush

Operating distance

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
x Operating distance in mm (decimal separator is comma or dot)

Mechanical design

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
L2 VariKont ® L – Polymeric enclosure

Electrical output

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
A2 4-Wire, DC, PNP, Antivalent
E2 3-Wire, DC, PNP, NO

Special feature

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
/ Blank: no special feature

Connection element

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
V1 M12 x 1 device connector for DC proximity switches

Approval indicator for EPL Gc

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
3G Approval indicator for EPL Gc

Approval indicator for EPL Dc (Optional)

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
/ Blank: no 3D product
3D Approval indicator for EPL Dc

Customer specific versions

N B B 20 - L2 - A2 - ... - V1 - 3G - 3D - ...
... Any letter or number combination as indicator for custom specific variants without impact on approval (optional)
/ Blank: no specification

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PMI 系列

Basic type

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

Measuring Range

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

Mechanical design

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

Electrical output

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

Special feature

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

Connection element

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

Approval indicator for EPL Gc

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

Approval indicator for EPL Dc (Optional)

PM I 40-F90-IU2EP-IO-V15-3G- 3D -... / Blank: no 3D product
3D Approval indicator for EPL Dc

Customer specific versions

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

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/ 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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Approval indicator for EPL Gc

N B B 20 - V3 - E2 - ... - V1 - 3G - 3D - ... 3G Approval indicator for EPL Gc

Approval indicator for EPL Dc (Optional)

N B B 20 - V3 - E2 - ... - V1 - 3G - 3D - ... / Blank: no 3D product
3D Approval indicator for EPL Dc

Customer specific versions

... 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 II C 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			60 Vdc		9 Vdc
									最大负载电流			最大负载电流		串联最小
									30	100	200	30	100	562 Ω
									mA	mA	mA	mA	mA	(NAMUR)
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
NCB	x	-L2	-N0		-V1		-x		N/A	N/A	N/A	N/A	N/A	65

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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	
1	2	3	4	5	6	7	8	9	双开关单元 每个 $I_{Lmax} = 100 \text{ mA}$ 1路模拟输出: $U_{Amax} = 10 \text{ V AC}$ $I_{Amax} = 20 \text{ mA}$	单开关单元 $I_{Lmax} = 100 \text{ mA}$ 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：

2023S17402-012749

使用条件：

1. 产品使用环境温度范围： $-25^{\circ}\text{C} \leq T_a \leq T_{a_{max}}$ ，其中 $T_{a_{max}}$ （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**-U1K-E2-3G*-**型产品在现场使用时严禁带电接通或断开。

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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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