



# 中国国家强制性产品认证证书

证书编号: 2024322315005858

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 SE  
Lilienthalstraße 200, 68307 Mannheim, Germany

产品名称和系列、型号、规格

电感式传感器  
N\*\*\_\*\_\*\_\*\_\*\_\*\_\*\_\*\_\*\_\*

产品标准和技术要求

GB/T 3836.1-2021、GB/T 3836.31-2021

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07月11日 有效期至:2029年03月26日

首次发证日期:2024年03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](http://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.:** 2024322315005858

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 SE  
Lilienthalstraße 200, 68307 Mannheim, Germany

NAME, SERIES, MODEL AND SPECIFICATION

Inductive Sensor  
N\*\*\_\*\_\*\_\*\_\*\_\*\_\*\_\*\_\*\_\*

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB/T 3836.1-2021、GB/T 3836.31-2021

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:2024-07-11 Valid until:2029-03-26

Date of initial issue:2024-03-27

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](http://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.



# 中国国家强制性产品认证证书

证书编号：2024322315005858

证书附页：第1页共6页

产品名称：  
电感式传感器

型号规格：

| 1   | 2  | 3      | 4      | 5      | 6   | 7    | 8 | 9 | Basic type                                 |  |
|-----|----|--------|--------|--------|-----|------|---|---|--|--|
| NBB | x  | -8GM40 | -E2-V1 | -3G-3D | -5M | -... |   |   | N  | Inductive proximity sensor                                   |
|     |    |        |        |        |     |      |   |   | <b>Sensor series</b>                       |  |
| NBB | x  | -8GM40 | -E2-V1 | -3G-3D | -5M | -... |   |   | B  | Basic series with basic characteristics                      |
|     |    |        |        |        |     |      |   |   | C  | Comfort series with improved characteristics                 |
|     |    |        |        |        |     |      |   |   | J  | Initiator  |
|     |    |        |        |        |     |      |   |   | <b>Mounting conditions</b>                 |  |
| NBB | 20 | -8GM40 | -E2-V1 | -3G-3D | -5M | -... |   |   | /  | Blank:   |
|     |    |        |        |        |     |      |   |   | B  | Flush  |
|     |    |        |        |        |     |      |   |   | N  | Non-flush  |
|     |    |        |        |        |     |      |   |   | <b>Operating distance</b>                  |  |
| NBB | x  | -8GM40 | -E2-V1 | -3G-3D | -5M | -... |   |   | x  | Operating distance in mm (decimal separator is comma or dot) |
|     |    |        |        |        |     |      |   |   | <b>Sensor diameter or thread dimension</b> |  |
| NBB | x  | -8GM40 | -E2-V1 | -3G-3D | -5M | -... |   |   | x  | Thread diameter in mm (decimal separator is comma or dot)    |
|     |    |        |        |        |     |      |   |   | <b>Mechanical design</b>                   |  |
| NBB | x  | -8GM40 | -E2-V1 | -3G-3D | -5M | -... |   |   | /  | Blank: no mechanical design defined                          |
|     |    |        |        |        |     |      |   |   | GM   | Thread, metal  |
|     |    |        |        |        |     |      |   |   | GK   | Thread, plastic  |
|     |    |        |        |        |     |      |   |   | GS   | Thread, metal (stainless steel V2A)                          |
|     |    |        |        |        |     |      |   |   | M  | Smooth, metal  |

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# 中国国家强制性产品认证证书

证书编号：2024322315005858

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|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      |  |                                   |
|---|---|---|----|---|---|---|---|----|---|----|---|----|---|----|---|----|---|----|---|-----|--------------------------------------|--|-----------------------------------|
| N | B | B | 20 | - | 8 | G | M | 40 | - | E2 | - | V1 | - | 3G | - | 3D | - | 5M | - | ... | <b>Approval indicator for EPL Dc</b> |  |                                   |
|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      | 3D   | Approval indicator for EPL Dc     |
|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      |  |                                   |
|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      |  | <b>Cable length</b>               |
| N | B | B | 20 | - | 8 | G | M | 40 | - | E2 | - | V1 | - | 3G | - | 3D | - | 5M | - | ... | xM                                   | Cable length in x meters (decimal separator is comma or dot)   |                                   |
|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      | /  | Blank: no OEM product             |
|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      |  |                                   |
|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      |  | <b>Customer specific versions</b> |
| N | B | B | 20 | - | 8 | G | M | 40 | - | E2 | - | V1 | - | 3G | - | 3D | - | 5M | - | ... | ...                                  | Any letter or number combination as indicator for custom specific variants without impact on approval (optional) |                                   |
|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      |  | Blank: no specification           |
|   |   |   |    |   |   |   |   |    |   |    |   |    |   |    |   |    |   |    |   |     |                                      |  |                                   |

防爆标志：

Ex tc III C T80°C Dc

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<br>最大负载电流 |           |           | 60 Vdc<br>最大负载电流 |           | 9 Vdc<br>串联最小562 Ω<br>(NAMUR) |
|        |   |       |      |    |   |   |    |    | 30<br>mA         | 100<br>mA | 200<br>mA | 30<br>mA         | 100<br>mA |                               |
| NJ     | x | -12GK | -SN  |    |   |   | -x | -x | N/A              | N/A       | N/A       | N/A              | N/A       | 63                            |
| NJ     | x | -18GK | -SN  |    |   |   | -x | -x | N/A              | N/A       | N/A       | N/A              | N/A       | 64                            |
| NJ     | x | -30GK | -SN  |    |   |   | -x | -x | N/A              | N/A       | N/A       | N/A              | N/A       | 65                            |
| NJ     | x | -18GK | -S1N |    |   |   | -x | -x | N/A              | N/A       | N/A       | N/A              | N/A       | 64                            |
| NJ     | x | -30GK | -S1N |    |   |   | -x | -x | N/A              | N/A       | N/A       | N/A              | N/A       | 65                            |
| NJ     | x | -11   | -SN  |    |   |   | -x | -x | N/A              | N/A       | N/A       | N/A              | N/A       | 64                            |
| NJ     | x | -11   | -SN  | -G |   |   | -x | -x | N/A              | N/A       | N/A       | N/A              | N/A       | 64                            |

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证书编号：2024322315005858

证书附页：第4页共6页

|     |   |         |      |     |    |     |    |     |     |     |     |     |     |     |
|-----|---|---------|------|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| NJ  | x | -22     | -SN  |     |    | -x  | -x | N/A | N/A | N/A | N/A | N/A | 64  |     |
| NJ  | x | -22     | -SN  | -G  |    | -x  | -x | N/A | N/A | N/A | N/A | N/A | 65  |     |
| NJ  | x | -22     | -N   | -G  |    | -x  | -x | N/A | N/A | N/A | N/A | N/A | 65  |     |
| NBB | x | -8GM40  | -E2  | -V1 | -x | -3D |    | -x  | 54  | 51  | N/A | N/A | N/A | N/A |
| NBB | x | -12GM40 | -Z0  |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 60  | 47  | N/A |
| NBB | x | -12GM50 | -E2  | -V1 | -x | -3D |    | -x  | 57  | 54  | N/A | N/A | N/A | N/A |
| NBB | x | -12GM50 | -E2  |     | -x | -3D | -x | -x  | 53  | 50  | N/A | N/A | N/A | N/A |
| NBB | x | -12GM60 | -A2  |     | -x | -3D | -x | -x  | 51  | 50  | 46  | N/A | N/A | N/A |
| NBB | x | -18GM40 | -Z0  |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 61  | 52  | N/A |
| NBB | x | -18GM50 | -E2  |     | -x | -3D | -x | -x  | 52  | 50  | 45  | N/A | N/A | N/A |
| NBB | x | -18GM50 | -E2  | -V1 | -x | -3D |    | -x  | 53  | 51  | 47  | N/A | N/A | N/A |
| NBB | x | -18GM60 | -A2  | -V1 | -x | -3D |    | -x  | 52  | 50  | 47  | N/A | N/A | N/A |
| NBB | x | -30GM50 | -E2  |     | -x | -3D | -x | -x  | 57  | 55  | 53  | N/A | N/A | N/A |
| NBB | x | -30GM50 | -E2  | -V1 | -x | -3D |    | -x  | 61  | 59  | 56  | N/A | N/A | N/A |
| NBB | x | -30GM50 | -E3  | -V1 | -x | -3D |    | -x  | 61  | 59  | 56  | N/A | N/A | N/A |
| NBB | x | -12GS40 | -Z4L |     | -x | -3D | -x | -x  | 60  | N/A | N/A | N/A | N/A | N/A |
| NBB | x | -12GS40 | -Z4L | -V1 | -x | -3D |    | -x  | 61  | N/A | N/A | N/A | N/A | N/A |
| NBB | x | -18GS50 | -Z4L |     | -x | -3D | -x | -x  | 63  | N/A | N/A | N/A | N/A | N/A |
| NBB | x | -18GS50 | -Z4L | -V1 | -x | -3D |    | -x  | 63  | N/A | N/A | N/A | N/A | N/A |
| NBB | x | -30GS50 | -Z4L |     | -x | -3D | -x | -x  | 63  | N/A | N/A | N/A | N/A | N/A |
| NBB | x | -30GS50 | -Z4L | -V1 | -x | -3D |    | -x  | 64  | N/A | N/A | N/A | N/A | N/A |
| NBN | x | -12GS40 | -Z4L |     | -x | -3D | -x | -x  | 60  | N/A | N/A | N/A | N/A | N/A |
| NBN | x | -12GS40 | -Z4L | -V1 | -x | -3D |    | -x  | 61  | N/A | N/A | N/A | N/A | N/A |
| NBN | x | -18GS50 | -Z4L |     | -x | -3D | -x | -x  | 62  | N/A | N/A | N/A | N/A | N/A |
| NBN | x | -18GS50 | -Z4L | -V1 | -x | -3D |    | -x  | 62  | N/A | N/A | N/A | N/A | N/A |
| NBN | x | -30GS50 | -Z4L |     | -x | -3D | -x | -x  | 63  | N/A | N/A | N/A | N/A | N/A |
| NBN | x | -30GS50 | -Z4L | -V1 | -x | -3D |    | -x  | 63  | N/A | N/A | N/A | N/A | N/A |
| NCB | x | -12GM35 | -N0  |     |    |     | -x | -x  | N/A | N/A | N/A | N/A | N/A | 64  |
| NCB | x | -12GM40 | -N0  | -V1 |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 64  |
| NCB | x | -12GM40 | -E2  |     | -x | -3D | -x | -x  | 53  | 50  | 44  | N/A | N/A | N/A |
| NCB | x | -12GM40 | -Z0  | -V1 | -x | -3D |    | -x  | N/A | N/A | N/A | 60  | 46  | N/A |

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# 中国国家强制性产品认证证书

证书编号：2024322315005858

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|-----|---|---------|-----|-----|----|-----|----|-----|-----|-----|-----|-----|-----|-----|
| NCB | x | -18GM40 | -N0 |     |    | -x  | -x | N/A | N/A | N/A | N/A | N/A | 64  |     |
| NCB | x | -18GM40 | -Z0 | -V1 | -x | -3D |    | -x  | N/A | N/A | N/A | 61  | 53  | N/A |
| NCB | x | -18GM40 | -Z1 |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 62  | 52  | N/A |
| NCB | x | -18GM40 | -Z0 |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 62  | 52  | N/A |
| NCB | x | -30GM40 | -N0 | -V1 |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 64  |
| NCB | x | -30GM40 | -N0 |     |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 65  |
| NCB | x | -30GM40 | -Z0 | -V1 | -x | -3D |    | -x  | N/A | N/A | N/A | 63  | 57  | N/A |
| NCB | x | -30GM40 | -Z0 |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 62  | 56  | N/A |
| NCB | x | -30GM40 | -Z1 |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 62  | 56  | N/A |
| NCB | x | -30GK40 | -N0 |     |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 65  |
| NCN | x | -12GM35 | -N0 |     |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 64  |
| NCN | x | -12GM40 | -Z0 |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 58  | 42  | N/A |
| NCN | x | -12GM40 | -E2 |     | -x | -3D | -x | -x  | 52  | 49  | 43  | N/A | N/A | N/A |
| NCN | x | -12GM40 | -E2 | -V1 | -x | -3D |    | -x  | 52  | 49  | 43  | N/A | N/A | N/A |
| NCN | x | -18GM40 | -N0 |     |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 64  |
| NCN | x | -18GM40 | -Z0 |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 60  | 50  | N/A |
| NCN | x | -18GM50 | -E2 |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 49  | 46  | N/A |
| NCN | x | -30GM40 | -N0 | -V1 |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 63  |
| NCN | x | -30GM40 | -N0 |     |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 64  |
| NCN | x | -30GM40 | -Z0 |     | -x | -3D | -x | -x  | N/A | N/A | N/A | 61  | 56  | N/A |
| NCN | x | -30GK40 | -N0 |     |    |     |    | -x  | N/A | N/A | N/A | N/A | N/A | 65  |
| NJ  | x | -18GM50 | -E2 | -V1 | -x | -3D |    | -x  | 57  | 55  | 50  | N/A | N/A | N/A |
| NJ  | x | -18GM50 | -E2 |     | -x | -3D | -x | -x  | 57  | 55  | 50  | N/A | N/A | N/A |
| NJ  | x | -30GM50 | -E2 | -V1 | -x | -3D |    | -x  | 60  | 59  | 57  | N/A | N/A | N/A |
| NJ  | x | -30GM50 | -E2 |     | -x | -3D | -x | -x  | 60  | 59  | 57  | N/A | N/A | N/A |

相关报告编号：  
2024S17402-013807

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证书编号：2024322315005858

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使用条件：

1.特殊（限制）使用条件

1) 产品在现场安装时，应考虑其环境参数，详见IECEX TUR 21.0018X附件技术数据以及产品说明书。

2) 产品在现场安装时，应将静电的风险降至最低，详见产品说明书。

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\*\*-\*-V1-\*-\*\*型产品在现场使用时严禁带电接通或断开。

6) N\*\*-\*-V1-\*-\*\*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。

2.产品外壳防护等级（IP代码）：IP64。

3.使用环境温度范围：

$-40^{\circ}\text{C} \leq T_a \leq T_{a_{\max}}$ （型号规格N\*\*-\*-SN-\*-\*\*及N\*\*-\*-S1N-\*-\*\*）

$-25^{\circ}\text{C} \leq T_a \leq T_{a_{\max}}$

其中 $T_{a_{\max}}$ （最高使用环境温度）见电气参数表格

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