

**[1] EU-TYPE EXAMINATION CERTIFICATE - Translation**

[2] Equipment or protective systems intended for use in potentially explosive atmospheres, Directive 2014/34/EU

[3] EU-type examination certificate number **IBExU22ATEX1004 X** | Issue 0

[4] Product: **Feedback unit**  
Type: V215 - \*\*\*\*\*

[5] Manufacturer: AMG-Pesch GmbH

[6] Address: Adam-Riese-Str. 1  
50996 Köln  
GERMANY

[7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] IBExU Institut für Sicherheitstechnik GmbH, notified body number 0637 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the essential health and safety requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential test report IB-21-3-0242.

[9] Compliance with the essential health and safety requirements has been assured by compliance with:  
EN IEC 60079-0:2018 EN 60079-11:2012  
except in respect of those requirements listed at item [18] of the schedule.

[10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the specific conditions of use specified in the schedule to this certificate.

[11] This EU-type examination certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

[12] The marking of the product shall include the following:

II 2G Ex ib IIC T6 resp. T5 resp. T4...T1 Gb

-20 °C ≤ T<sub>a</sub> ≤ +70 °C resp. +77 °C resp. +80 °C (maximum value\*)

\* The max. ambient temperatures of the used sensors and intrinsically safe characteristic values have to be observed (see technical data).

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Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of dispute, the German text shall prevail.

Freiberg, 2022-08-15

[13]

**Schedule**

[14]

**Certificate number IBExU22ATEX1004 X | Issue 0****[15] Description of product**

The feedback units type V215 - \*\*\*\*\* are used as position indicators for end positions or intermediate positions of valves and actuators. Fixed mechanical positions are converted into electrical signals. The interface to the actuator or valve is made via a coupling pin with screwed-on switching segment.

**Technical Data:****Environmental conditions**

Degree of protection: IP65 (according IEC 60529)

Ambient temperature: T6: -20 °C up to +70 °C

T5: -20 °C up to +77 °C

T4...T1: -20 °C up to +80 °C

(max. temperature of the used sensors have to be observed)

**Electrical Data:**

Supply circuit in intrinsic safety ib:

The intrinsically safe characteristic values and the internal inductances and capacitances differ depending on the used sensor type and are specified in each case on the type plate or in the operating instructions.

**Used sensors:****Slot sensors:**

Type	Ambient-temperature	U <sub>i</sub> / V	I <sub>i</sub> / mA	P <sub>i</sub> / mW	ATEX-Certificate	IECEx-certificate	Manufacturer
SI3,5-K10-Y1	-25/+70 °C	20	60	130	KEMA 02ATEX1090 X	IECEx KEM 06.0036X	TURCK
SI3,5-K10-Y1X	-25/+70 °C	20	60	130	KEMA 02ATEX1090 X	IECEx KEM 06.0036X	TURCK
SJ3,5-SN-Y89604	-40/+89 °C	16	52	169	PTB 00 ATEX 2049 X	IECEx PTB 11.0092X	Pepperl & Fuchs
SJ3,5-S1N	-25/+89 °C	16	52	169	PTB 00 ATEX 2049 X	IECEx PTB 11.0092X	Pepperl & Fuchs
SC3,5-G-NO	-25/+89 °C	16	52	169	PTB 99 ATEX 2219 X	IECEx PTB 11.0091X	Pepperl & Fuchs
SJ3,5-G-N	-25/+89 °C	16	52	169	PTB 99 ATEX 2219 X	IECEx PTB 11.0091X	Pepperl & Fuchs
SJ5-G-N	-25/+89 °C	16	52	169	PTB 99 ATEX 2219 X	IECEx PTB 11.0091X	Pepperl & Fuchs

**Cylindrical sensors:**

Type	Ambient-temperature	U <sub>i</sub> / V	I <sub>i</sub> / mA	P <sub>i</sub> / mW	ATEX-Certificate	IECEx-certificate	Manufacturer
NJ2-11-SN-G	-40/+81 °C	16	52	169	PTB 00 ATEX 2049 X	IECEx PTB 11.0092X	Pepperl & Fuchs
NJ2-12GK-SN	-40/+80 °C	16	52	169	PTB 00 ATEX 2049 X	IECEx PTB 11.0092X	Pepperl & Fuchs
NJ5-11-N-G-Y25728	-25/+82 °C	16	52	169	PTB 00 ATEX 2048 X	IECEx PTB 11.0037X	Pepperl & Fuchs
NJ2-12GK-N	-25/+80 °C	16	52	169	PTB 00 ATEX 2048 X	IECEx PTB 11.0037X	Pepperl & Fuchs
NJ4-12GK-N	-25/+80 °C	16	52	169	PTB 00 ATEX 2048 X	IECEx PTB 11.0037X	Pepperl & Fuchs
NJ2-12GM-N	-25/+81 °C	16	52	169	PTB 00 ATEX 2048 X	IECEx PTB 11.0037X	Pepperl & Fuchs
NJ2-11-N-G	-25/+81 °C	16	52	169	PTB 00 ATEX 2048 X	IECEx PTB 11.0037X	Pepperl & Fuchs
NCB2-12GM35-NO	-25/+81 °C	16	52	169	PTB 00 ATEX 2048 X	IECEx PTB 11.0037X	Pepperl & Fuchs
BI2-G12-Y1X	-25/+70 °C	20	20	200	KEMA 02 ATEX 1090X	IECEx KEM 06.0036X	TURCK

# IBExU Institut für Sicherheitstechnik GmbH

An-Institut der TU Bergakademie Freiberg

## Cuboid sensors:

Type	Ambient-temperature	U <sub>i</sub> / V	I <sub>i</sub> / mA	P <sub>i</sub> / mW	ATEX-certificate	IECEx-certificate	Manufacturer
NS5003	-25/+70 °C	15	50	120	PTB 02 ATEX 2217 BVS 04 ATEX E153	IECEx BVS 06.0003	ifm
NJ2-V3-N	-25/+89 °C	16	52	169	PTB 00 ATEX 2032 X	IECEx PTB 11.0021X	Pepperl & Fuchs
NCB2-V3-NO	-25/+89 °C	16	52	169	PTB 00 ATEX 2032 X	IECEx PTB 11.0021X	Pepperl & Fuchs

## Sensors with two contacts:

Type	Ambient-temperature	U <sub>i</sub> / V	I <sub>i</sub> / mA	P <sub>i</sub> / mW	ATEX-certificate	IECEx-certificate	Manufacturer
NCN3-F25-N4-0,14	-25/+95 °C	15	52	169	TÜV 99 ATEX 1479 X	IECEx TUN 17.0021X	Pepperl & Fuchs
NCN3-F25-N4-5M	-25/+95 °C	15	52	169	TÜV 99 ATEX 1479 X	IECEx TUN 17.0021X	Pepperl & Fuchs
NCN3-F25-N4-V1	-25/+95 °C	15	52	169	TÜV 99 ATEX 1479 X	IECEx TUN 17.0021X	Pepperl & Fuchs

## Sensors with two contacts and board with clamps:

Type	Ambient-temperature	U <sub>i</sub> / V	I <sub>i</sub> / mA	P <sub>i</sub> / mW	ATEX-certificate	IECEx-certificate	Manufacturer
PL3-F25-N4-K	-25/+95 °C	15	52	169	TÜV 99 ATEX 1479 X	IECEx TUN 17.0021X	Pepperl & Fuchs
PL3-F25-N4-K-Y44436	-25/+95 °C	15	52	169	TÜV 99 ATEX 1479 X	IECEx TUN 17.0021X	Pepperl & Fuchs
PL2-F25-N4-K	-25/+95 °C	15	52	169	TÜV 99 ATEX 1479 X	IECEx TUN 17.0021X	Pepperl & Fuchs

### [16] Test report

The test results are recorded in the confidential test report IB-21-3-0242 of 2022-06-08. The test documents are part of the test report and they are listed there.

#### *Summary of the test results*

The feedback unit type V215 - \*\*\*\*\* fulfills the requirements of explosion protection for devices of device group II, category 2G in ignition protection type intrinsic safety "i" for explosion group IIC.

### [17] Specific conditions of use

- It is not permitted to operate the feedback unit type V215 - \*\*\*\*\* near highly charging processes.
- The maximum ambient temperatures for temperature classes T6 to T1 are limited according to the operating instructions of the used sensors.

### [18] Essential health and safety requirements

In addition to the essential health and safety requirements (EHSRs) covered by the standards listed at item [9], the following are considered relevant to this product, and conformity is demonstrated in the test report:

None

### [19] Drawings and Documents

The documents are listed in the test report.

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