# Translation EU-Type Examination Certificate

- Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014
- EU-Type Examination Certificate Number: BVS 08 ATEX E 122 X Issue: 01
  - Equipment: Transmitter-Receiver light barrier, type PP2031\* Ex and PP2031\*01n\* Ex Diffuse-Reflective Sensor, type JP705/yL Ex and JP7051/yL Ex Reflex light barrier, type JP705 Ex and JP7051 Ex
- Manufacturer: Fotoelektrik Pauly GmbH

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- Address: Wahrbrink 6, 59368 Werne, Germany
- This product and any acceptable variations thereto are specified in the appendix to this certificate and the documents referred to therein.
- DEKRA Testing and Certification GmbH, Notified Body number 0158, 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 Report No. BVS PP 08/2156 EU.

This issue of the EU-Type Examination Certificate replaces the previous issue of the EC-Type Examination Certificate BVS 08 ATEX E 122 X including supplements 1 and 2.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014 General requirements Flameproof enclosure "d" Protection by Enclosure "t'

- 10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the "Specific Conditions of Use" listed under item 17 of this certificate,
- 11 This EU-Type Examination Certificate relates only to the technical design of the specified product in accordance with the Directive 2014/34/EU. 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 db IIC T6 Gb II 2D Ex tb IIIC T80°C Db

DEKRA Testing and Certification GmbH Bochum, 2024-02-07

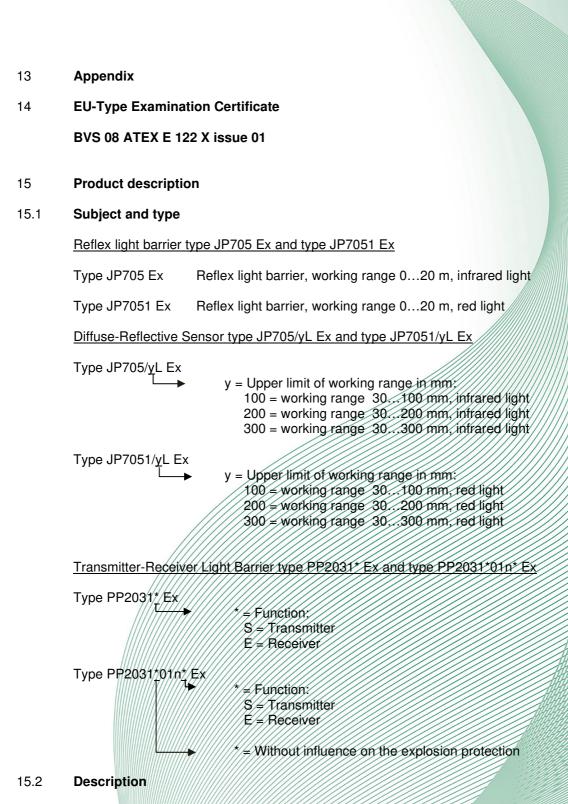
Signed: Oliver Brumm

Managing Director

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DEKRA Testing and Certification GmbH, Handwerkstr. 15, 70565 Stuttgart, Germany Certification body: Dinnendahlstr. 9, 44809 Bochum, Germany Phone +49.234.3696-400, Fax +49.234.3696-401, e-mail DTC-Certification-body@dekra.com



The transmitter-receiver light barrier type PP 2031\* Ex and type PP 2031\* 01n\* Ex, the reflex light barrier type JP705 Ex and type JP7051 Ex as well as the diffuse-reflective sensor type JP705/yL Ex and type JP7051/yL Ex are designed in type of protection Flameproof Enclosure. They consist of a tubular enclosure bottom housing which is equipped on one side with a threaded hole for mounting a separately certified cable gland. On the other side, the enclosure is equipped with a female thread. Into this female thread, the cover is screwed. In the cover a glass pane is mounted. The inside of the cover is provided with an internal thread, into which a tube with external thread is screwed. This tube serves to incorporate the electronics and fixes the glass pane by using a pressure ring.

The transmitter-receiver light barrier, the reflex light barrier, and the diffuse-reflective sensor are equipped with a permanent connected cable. The difference between the types is a different electronic and the operating mode.

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## Reasons for this issue:

- Change to Directive 2014/34/EU
- Updating the used standards EN 60079-0:2009 to EN IEC 60079-0:2018 EN 60079-1:2007 to EN 60079-1:2014 EN 60079-31:2009 to EN 60079-31:2014
- Change of manufacturer name: Fotoelektrik Pauly GmbH & Co. KG to Fotoelektrik Pauly GmbH

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| Rated voltage             | DC       | 24 V   |
|---------------------------|----------|--------|
| Rated current             |          | 40 mA  |
| Max. rated power          |          | 1 W    |
| Ambient temperature range | -20 °C . | +60 °C |

#### 16 Report Number

BVS PP 08.2156 EU, as of 2024-02-07

### 17 Specific Conditions of Use

The dimensions of the flameproof joints are in parts other than the relevant minimum or maximum values of IEC 60079-1:2014. For information on the dimensions of the flameproof joints contact the manufacturer.

## 18 Essential Health and Safety Requirements

Met by compliance with the requirements mentioned in item 9

#### 19 Remarks and additional information

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original. In the case of arbitration only the German wording shall be valid and binding

DEKRA Testing and Certification GmbH Bochum, 2024-02-07 BVS-(Ddo)/Kir/Mu A 20230476 / 343107100

Managing Director

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