



Product Service

(1) **EU-Type Examination Certificate**
TRANSLATION

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres – **Directive 2014/34/EU**

(3) Number of Certificate of EU-Type Examination:

TPS 22 ATEX 110398 0002 X Issue 01



(4) Equipment: Actuator
Type: PSF-****.*-EX and PSF-Q-***.*-EX

(5) Manufacturer: PS Automation GmbH

(6) Address: Philipp-Krämer-Ring 13, 67098 Bad Dürkheim, Germany

(7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) TÜV SÜD Product Service GmbH, notified body No. 0123 in accordance with Article 17 of the Council Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive. The examination and test results are recorded in the confidential report 713311330.

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

EN IEC 60079-0:2018

EN IEC 60079-7:2015/A1:2018

EN 60079-1:2014

EN 60079-31:2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacturer and supply of this equipment.

(12) The marking of the equipment shall include the following:

| | | |
|--|------------------------------------|----|
| | II 2G Ex db eb IIC T4 Gb | or |
| | II 2G Ex db eb IIC T6 Gb | or |
| | II 2D Ex tb IIIC T80 °C Db | or |
| | II 2D Ex tb IIIC T100 °C Db | |

Certification body Explosion Protection
Ridlerstraße 65, 80339 Munich

Munich, July 30, 2024

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Dipl.-Ing. (FH) Arno Butzke



Schedule

- (13) **Schedule**
- (14) **EU-Type Examination Certificate TPS 22 ATEX 110398 0002 X** Issue 01

- (15) Description of equipment:

The actuators of type PSF-****.*-EX and PSF-Q-****.*-EX are used to operate valves and are designed in the types of protection *Flameproof Enclosure "d"* and *Increased Safety "e"* or in the type of protection *Protection by Enclosure "t"*. The actuator can be operated by 2 push buttons without opening the enclosure.

The attachment of a valve and the mechanical design of such valves are not subject of this test.

Technical Data:

Electrical parameters

Rated voltage ≤ 230 V AC (± 10 %) or
 ≤ 24 V DC (± 10 %)

Nominal power ≤ 10.1 W

Assignment of ambient temperature and temperature class / surface temperature:

| Ambient temperature range | Temperature class (gas) | Permitted surface-temperature (dust) |
|--------------------------------|-------------------------|--------------------------------------|
| -10 °C $\leq T_a \leq 40$ °C | T6 | T80 °C |
| -10 °C $\leq T_a \leq 60$ °C | T4 | T100 °C |

TABLE 1

Details of change to issue 00:

- Replacing the certified blanking plug in the Ex eb / Ex tb enclosure with a glass insert
- Minor mechanical changes
- new variant PSF-Q-****.*-EX with different drive

- (16) Test report: 713311330

- (17) Special conditions for safe use:

To avoid critical electrostatic charges, the equipment must:

- not be installed in the ambient of highly charge-generating processes
- only be cleaned with a damp or antistatic cloth.

The lengths of the flameproof joints are in parts longer and the gaps of the flameproof joints are in parts smaller than the values of table 3 for IIC of EN 60079-1:2014. For information about the dimensions of the flameproof joints contact the manufacturer.

The fasteners of parts of the flameproof enclosure shall have a yield stress of at least 640 N/mm².

- (18) Essential health and safety requirements:

met by standards