



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEX Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX EXA 18.0003X** Page 1 of 5 Certificate history:  
Status: **Current** Issue No: 2 Issue 1 (2022-11-18)  
Date of Issue: 2024-06-20 Issue 0 (2018-06-21)  
Applicant: **Officine Orobiche S.r.l.**  
Via Giorgio Paglia, 22  
I - 24050, Zanica (BG)  
Italy  
Equipment: **Magnetic level switch, type: T25...**  
Optional accessory:  
Type of Protection: **Flameproof enclosure 'db', Intrinsic safety 'ia', Protection by enclosure 'tb'**  
Marking: **Ex db IIC T6...T4 Gb; Ex tb IIIC T85°C...T135°C Db**  
or  
**Ex ia IIC T6...T4 Gb; Ex ia IIIC T85°C...T135°C Db**  
or  
**Ex ia IIC T6...T4 Gb**  
or  
**Ex ia IIC T4 Gb or Ex ia IIIC T200 135°C Db**

Approved for issue on behalf of the IECEX  
Certification Body:

Marino Kelava



Position:

Certification Signatory

Signature:  
(for printed version)

Date:  
(for printed version)

2024-06-20

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting [www.iecex.com](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

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**Croatia**



**Fiditas**  
explosion safety solutions



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Date of issue: 2024-06-20

Issue No: 2

Manufacturer: **Officine Orobiche S.r.l.**  
Via Giorgio Paglia, 22  
I - 24050, Zanica (BG)  
**Italy**

Manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-0:2011** Explosive atmospheres - Part 0: General requirements  
Edition:6.0

**IEC 60079-1:2014** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

HR/EXA/ExTR18.0005/00

HR/FIDI/ExTR24.0012/00

Quality Assessment Report:

IT/CES/QAR16.0002/10



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Magnetic switch type T25... is an equipment intended for detection of liquid thresholds in tanks. The working principle of the device is based on interaction between a reed switch contained in the enclosure and a float, with a permanent magnet, that floats in the process fluid inside a bypass pipe connected to the tank. When the float moves in the bypass pipe with the fluid level it activates the reed switch. The reed switch is considered as a "Simple Apparatus".

Types T25 XD and T25 XD INOX have 2 entries closed with a separately certified plug or cable gland. Types T25 XI, T25 XI INOX have 2 entries closed with a plug or cable gland. Model T25 WHXI has an aluminum enclosure with 2 entries closed with plugs and in addition there is an aluminum enclosure with a cable gland for cable entry that contains terminals for electrical connections. Type T25 NR has an aluminum enclosure type CA -130 (IECEX IBE 15.0025U), a terminal type MK/3/4/E (IECEX TUR 18.0019U) for electrical connections and the Inductive slot sensor type SJ3,5-N-GN (IECEX PTB 11.0091X). Mode of protection is Ex ia IIC T4 Gb and Ex ia IIIC T200 135°C Db.

Separately certified cable glands are part of this equipment:

- Cable gland ELFIT NAV20SIB for Service Temperature -60 °C up to +130 °C. Certificate IECEX IMQ 17.0010X
- Cable gland CMP mod A2F 20S Service Temperature -60 °C up to 130 °C Certificate IECEX CML 18.0179X

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The equipment has multiple temperature classes and due to the small size of equipment it is impractical to include complete information in the label.

- For EPL Gb: T6 with process fluid max temperature 170°C  
T5 with process fluid max temperature 200°C  
T4 with process fluid max temperature 250°C

- For EPL Db: T85°C with process fluid max temperature 180°C  
T135°C with process fluid max temperature 250°C

2. Flameproof joints for type T25 XD and T25 XD INOX are not intended to be repaired. Cable glands and plugs are factory mounted in threaded holes and cannot be removed or replaced.

3. Ambient temperature range of equipment is:

- -50°C / + 70°C for type T25 XI, T25 XI INOX, T25 WHXI, T25 XD (with cable gland CMP model A2F 20S) and T25 XD INOX (with cable gland CMP model A2F 20S), and type:25 NR.
- -40°C / + 70°C for type T25 XD (with cable gland ELFIT REVL1IB) and T25 XD INOX (with cable gland ELFIT REVL1IB)



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## Equipment (continued):

### Electrical parameters for T25 XD and T25 XD INOX:

Rated Voltage 230 VAC/200VDC, Rated Current 1A/0.5A Rated Power 40 VA/40W

Electrical parameters for T25 XI, T25 XI INOX and T25WHXI:

$U_i = 28 \text{ V}$ ,  $I_i = 100 \text{ mA}$ ,  $L_i = \text{negligible}$ ,  $C_i = \text{negligible}$ ,  $P_i = 700 \text{ mW}$

### Electrical parameters for Type:T25 NR:

For EPL Gb:  $U_i = 16 \text{ V}$ ,  $I_i = 76 \text{ mA}$ ,  $P_i = 242 \text{ mW}$ ,  $C_i = 50 \text{ nF}$ ,  $L_i = 250 \text{ }\mu\text{H}$

For EPL Db:  $U_i = 16 \text{ V}$ ,  $I_i = 52 \text{ mA}$ ,  $P_i = 169 \text{ mW}$ ,  $C_i = 50 \text{ nF}$ ,  $L_i = 250 \text{ }\mu\text{H}$

| Type        | Type of protection   | IP protection                               |
|-------------|--|---|
| T25 XI      | Ex db IIC T6...T4 Gb                                       | IP66 according to IEC 60529 and IEC 60079-0 |
| T25 XD INOX | Ex tb IIIC T85°C...T135°C Db                               |   |
| T25 XI      | Ex ia IIC T6...T4 Gb                                       | IP66 according to IEC 60529 and IEC 60079-0 |
| T25 XI INOX | Ex ia IIIC T85°C...T135°C Db                               |   |
| T25 WHXI    | Ex ia IIC T6...T4 Gb                                       | IP66 according to IEC 60529                 |
| T25 NR      | Ex ia IIC T4 Gb or<br>Ex ia IIIC T <sub>200</sub> 135°C Db | IP66 according to IEC 60529                 |



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

Addition of new type: T25 NR

Introduction of new issue of IEC 60079-0, Ed7 for Type T25 NR

Previously listed cable glands have been replaced by the following: ELFIT NAV20SIB, certificate IECEX IMQ 17.0010X and CMP mod A2F 20S, certificate IECEX CML 18.0179X

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