



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx EXA 18.0003X

Issue No: 0

Certificate history:

Issue No. 0 (2018-06-21)

Status: **Current**

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Date of Issue: **2018-06-21**

Applicant: **Officine Orobiche S.p.a.**
Via Serena, 10 - 24010 Ponteranica (BG)
Italy

Equipment: **Magnetic 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 IIC T85°C...T135°C Db

or

Ex ia IIC T6...T4 Gb

Ex ia IIC T85°C...T135°C Db

or

Ex ia IIC T6...T4 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Damir Korunić

Position:

Director General

Signature:

(for printed version)

Date:

2018-06-21



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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

**Agencija za prostore ugrožene eksplozivnom atmosferom (Ex-
Agencija)**
Industrijska 25
HR-10431 Sveta Nedelja
Croatia





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Manufacturer: **Officine Orobiche S.p.a.**
Via Serena, 10 - 24010 Ponteranica (BG)
Italy

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

*This Certificate **does not** indicate compliance with electrical 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 Report:

[HR/EXA/ExTR18.0005/00](#)

Quality Assessment Report:

[IT/CES/QAR16.0002/02](#)



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Schedule

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.

Separately certified cable glands are part of this equipment:

Cable gland ELFIT REVL1IB for Service Temperature -40°C up to +110 °C. Certificate IECEx CES 13.0005X

Cable gland CMP mod A2F 20S Service Temperature -50°C up to 125°C. Certificate IECEx SIR 13.0023X

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:

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

Type	Type of protection	IP protection
T25 XI T25 XD INOX	Ex db IIC T6...T4 Gb Ex tb IIIC T85°C...T135°C Db	IP66 according to IEC 60529 and IEC 60079-0
T25 XI T25 XI INOX	Ex ia IIC T6...T4 Gb Ex ia IIIC T85°C...T135°C Db	IP66 according to IEC 60529 and IEC 60079-0
T25 WHXI	Ex ia IIC T6...T4 Gb	IP66 according to IEC 60529



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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).
- -40°C / + 70°C for type T25 XD (with cable gland ELFIT REVL1IB) and T25 XD INOX (with cable gland ELFIT REVL1IB)