

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

(2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**




(3) **Certificate Number** TÜV CY 18 ATEX 0206063 X Issue 01
 (4) for the equipment: Magnetic Level Switches T25 Series
 (5) of the manufacturer: **Officine Orobiche S.r.l.**
 (6) Address: Via G. Paglia 22 – 24050 Zanica (BG) - Italy
 Order number: 0206063
 Date of issue: 2023-01-30

(7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.
 (8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system 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 to the Directive. The examination and test results are recorded in the confidential report No. 23 0206063.
 (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 60079-11: 2012 EN 60079-31: 2014

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.
 (12) The marking of the equipment or protective system must include the following:

	II 2G Ex db IIC T6...T4 Gb	or
	II 2D Ex tb IIIC T85°C...T135°C Db	II 2G Ex db IIC T6 Gb
	or	II 2D Ex tb IIIC T 85°C Db
	II 2G Ex ia IIC T6...T4 Gb	or
	II 2D Ex ia IIIC T85°C...T135°C Db	II 2G Ex ia IIC T6...T3 Gb

TÜV CYPRUS Ltd (TUV NORD Group),
 The head of the notified body,

D. Demosthenous

Accredited by CYS-CYSAB
 Certificate No. C 004-2



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 Excerpts or changes shall be allowed by the TÜV CYPRUS Ltd

(13) **SCHEDULE**

(14) **EU-Type-Examination Certificate No. TÜV CY 18 ATEX 0206063 X Issue 01**

(15) Description of equipment

Type T25 equipment are Magnetic Level Switches for detection of liquid thresholds in tanks. The working principle of the device is based on interaction between a reed switch contained in the Level Switch and a float, with a permanent magnet inside, that floats in the process fluid inside a bypass pipe connected to the tank. The measure is performed by commutation of the reed switch.

Type key:

Type T25 XD has an aluminum enclosure, **Type T25 XD INOX** has a stainless steel enclosure and both have mode of protection Ex db for EPL Gb and Ex tb for EPL Db.

Type T25 XI has an aluminum enclosure, **Type Model T25 XI INOX** has stainless steel enclosure and both have mode of protection Ex ia for EPL Gb and Db.

Type T25 WHXI has an aluminum enclosure and terminals box for electrical connections. Mode of protection is Ex ia for EPL Gb

Type T25 XD2 has a die cast aluminum explosion proof certified enclosure, Limatherm Mod. XD-JB85. Mode of protection is Ex db for EPL Gb.

T25 HTXI equipment is a Magnetic Level Switch for detection of liquid thresholds in tanks, specially designed for high temperature applications. Mode of protection is Ex ia for EPL Gb.

Current Issue 01 includes the update of the manufacturer business name and address, the extension of the temperature class for type T25 HTXI and the update of the harmonized standard.

Technical data:

Type	Marking	Ambient Temperature Range	Rating
T25 XD T25 XD INOX	II 2G Ex db IIC T6...T4 Gb II 2D Ex tb IIIC T85°C...T135°C Db	-40 °C / + 70 °C or -50 °C / + 70 °C	230 VAC/ 200VDC 1A AC/ 0.5A DC
T25 XD2	II 2G Ex db IIC T6 Gb II 2D Ex tb IIIC T 85°C Db	-40 °C / + 70 °C	230 VAC/ 200VDC 1A AC/ 0.5A DC

Type	Marking	Ambient Temperature Range	Electrical Safety Parameter
T25 XI T25 XI INOX	II 2G Ex ia IIC T6...T4 Gb II 2D Ex ia IIIC T85°C...T135°C Db	-50 °C / + 70 °C	Ui = 28 V, Ii = 100 mA Li= negligible, Ci= negligible, Pi = 700 mW
T25 WHXI	II 2G Ex ia IIC T6...T4 Gb	-50 °C / + 70 °C	Ui = 28 V, Ii = 100 mA Li= negligible, Ci= negligible, Pi = 700 mW

T25 HTXI	II 2G Ex ia IIC T6...T3 Gb	-50 °C / + 70 °C	U _i = 28 V, I _i = 100 mA L _i = negligible, C _i = negligible, P _i = 700 mW
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(16) Test documents are listed in the test report No. 23 0206063

(17) Special conditions for safe use

Types T25 XD, T25 XD INOX, T25 XI, T25 XI INOX, T25 WHXI

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

All types of EPL Gb:

- The temperature class is T6...T4
- T6 with process fluid max T 170°C
- T5 with process fluid max T 200°C
- T4 with process fluid max T 250°C

All types of EPL Db:

- T 85°C with process fluid max T 180°C
- T 135°C with process fluid max T 250°C

2. Addition only for type T25 XD and XD INOX:

In the instruction manual is indicated that flameproof joints are not intended to be repaired. Cable glands and plugs are factory mounted in treaded holes and cannot be removed or replaced.

Type T25 XD2

1. Dimensions of thread flameproof joints are in the Manufacturer Instruction Manual

Type T25 HTXI

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

- The temperature class is T6...T3
- T6 with process fluid max T 200°C
- T5 with process fluid max T 250°C
- T4 with process fluid max T 350°C
- T3 with process fluid max T 450°C

(18) Essential Health and Safety Requirements
No additional ones.