

EU TYPE-EXAMINATION CERTIFICATE

1. **EU type-examination Certificate (Module B)**

2. **Equipment or Protective System intended for use in potentially explosive atmospheres (Directive 2014/34/EU)**



3. **EU type examination certificate Nr ITS 03ATEX21478X R.0**

4. **Product:** TYPES ULS and VLS 00A, 00D, 001, 004, 007 and 009 LIMIT SWITCH BOX

5. **Manufacturer:** KINETROL LIMITED **Applicant:** KINETROL LIMITED

6. **Address:** Trading Estate, Farnham, Surrey, GU9 9NU **Address:** Trading Estate, Farnham, Surrey, GU9 9NU

7. This product and any acceptable variation thereto are specified in the schedule to this certificate and therein referred to.

8. INTERTEK ITALIA S.p.A., Notified Body n° 2575 in accordance with article 17 of the Directive 2014/34/EU of the European Parliament and Council of the 26 February 2014, certifies that the 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 system intended for use in potentially explosive atmosphere, given in Annex II of the Directive.

The examination and tests results are recorded in confidential technical evaluation Intertek Report Nr. 104048444ALHD-001 dated 17th March 2023.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-11:2011 except in respect of those requirements referred to at item 16 of the Schedule.

10. If the sign X is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.

11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. 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 1G or II 2G Ex ia IIB or IIC T4 to T6 Ga or Gb
II 1D Ex ia IIIC T130°C Da
-20°C ≤ Ta ≤ +80°C, 70, 73 or 74°C, depending on type of switch and barrier used
See Schedule for full coding details

Certificate issue date

17th April 2023

Mark Newman

Certification Officer
Intertek Italia S.p.A. (NB 2575)



PDR N° 277B

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

This certificate has been issued by Intertek Italia S.p.A. NB 2575 on transfer from Intertek Testing & Certification Ltd. (NB 0359) using the same issued original certificate number.



This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

Intertek Italia S.p.A. Via Miglioli, 2/A - 20063 Cernusco sul Naviglio, Milano - Italy

LFT-EMEA-IT-ATEX-OP-23a (8 March 2022)



SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 03ATEX21478X R.0

13. DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The Type ULS/ VLS 001, 00A and 009, 00D and 004, 007 Ex ia Limit Switch Boxes consists of an enclosure constructed from either Zinc or Aluminium, which is fitted with either two or four approved inductive sensors Type NJ2-V3-N..., certified PTB 00 ATEX 2032 X, or Type NS5002, certified PTB01ATEX2191 to form a Type VLS 001 (two sensor)/00A (four sensor) unit or two or four microswitches to form a Type 009, 004 (two switch) or 00D, 007 (four switch) unit.

The equipment is to be fitted to valve actuators in the Kinetrol range 03 to 15 to indicate the position of quarter turn valves. The switch box is mounted onto valve actuators by means of two or four screws and a square section shaft. Discrete mount versions may be fitted to other devices by four screws and either a square section or flat sided shaft.

The VLS enclosure provides a degree of protection of at least IP65. The ULS Enclosure is considered to provide and degree of protection of IP54

Both internal and external earthing facilities are provided.

Marking and ambient temperature range for other versions are as follows:

| | |
|----------------------------|---|
| II 1G Ex ia IIC T4 Ga | VLS Type 001/00A, 004/007, 009/00D Category |
| II 1D Ex ia IIIC T130°C Da | 1GD, 80°C options |
| -20°C ≤ Ta ≤ +80°C | |
| II 2G Ex ia IIC T6 Gb | VLS Type 001/00A Category 2, IIC, T6, 70°C option |
| II 1D Ex ia IIIC T130°C Da | |
| -20°C ≤ Ta ≤ +70°C | |
| II 2G Ex ia IIC T5 Gb | VLS Type 001/00A Category 2, IIC, T5, 80°C option |
| II 1D Ex ia IIIC T130°C Da | |
| -20°C ≤ Ta ≤ +80°C | |
| II 1G Ex ia IIC T6 Ga | VLS Type 001/00A Category 1, IIC, T6, 73°C option |
| II 1D Ex ia IIIC T130°C Da | |
| -20°C ≤ Ta ≤ +73°C | |
| II 1G Ex ia IIC T4 Ga | VLS Type 001/00A Category 1, 74°C 242 mW |
| II 1D Ex ia IIIC T130°C Da | barrier option |
| -20°C ≤ Ta ≤ +74°C | |
| II 1G Ex ia IIB T6 Ga | VLS Type 001/00A, Category 1G, IIB, T6, 70°C |
| II 1D Ex ia IIIC T130°C Da | option |
| -20°C ≤ Ta ≤ +70°C | |
| II 1G Ex ia IIB T5 Ga | VLS Type 001/00A, Category 1G, IIB, T5, 80°C |
| II 1D Ex ia IIIC T130°C Da | option |
| -20°C ≤ Ta ≤ +80°C | |



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EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 03ATEX21478X R.0

Maximum Input Parameters per sensor or switch are indicated in the table below:

| Kinetrol option | 001 / 00A | | | | 001 / 00A | | | | 009 / 00D | 004 / 007 |
|----------------------------------|--------------------|----|-----|-----|-------------------|-----|-----|-----|-----------|-----------|
| Switch Manufacturer | Pepperl & Fuchs | | | | IFM | | | | Crouzet | Crouzet |
| Switch manufacturer's designator | NJ2-V3-N | | | | NS5002 | | | | 831618 | 83263 |
| Atex certificate number | PTB00ATEX2032 X | | | | PTB01ATEX2191 | | | | n/a | n/a |
| IECEX Certificate number | IECEX PTB 11.0021X | | | | IECEX BVS 06.0003 | | | | n/a | n/a |
| Ui (V) | 16 | | | | 15 | | | | 28 | 28 |
| Ii (mA) | 25 | 76 | 52 | 76 | 50 | | | | 93 | 93 |
| Pi (mW) | 34 | 64 | 169 | 242 | 120 | | | | 550 | 550 |
| Maximum Ambient Temperature (°C) | 73 | 80 | 80 | 74 | 70 | 80 | 70 | 80 | 80 | 80 |
| T rating | T6 | T5 | T4 | T4 | T6 | T5 | T6 | T5 | T4 | T4 |
| Equipment category | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 1 | 1 |
| Gas Group | IIC | | | | IIB | IIB | IIC | IIC | IIC | IIC |
| Ci (nF) | 40 | | | | 80 | | | | n/a | n/a |
| Li (µH) | 50 | | | | 110 | | | | n/a | n/a |

CE Marking shall be accompanied by the identification number of the Notified Body responsible for surveillance of production.

14. DRAWINGS AND DOCUMENTS

| TITLE | DOCUMENT Nr | LEVEL | DATE |
|---|---------------|-------|----------|
| ULS Box General Construction and Labelling (Code 001) | 305-000-083 | E | 03/03/21 |
| ULS Box General Construction and Labelling (Code 009) | 305-000-084 | E | 04/03/21 |
| VLS Coupling Assembly Approval Drawing | 305-000-085-1 | B | 10/12/20 |
| VLS Box Approval Drawing | 305-420-013 | C | 18/01/21 |
| VLS Box Approval Drawing | 305-440-013 | C | 18/01/21 |
| VLS LID Approval Drawing | 305-401-002 | C | 04/03/21 |
| VLS Box General Construction and Labelling | 305-000-209 | F | 03/03/21 |
| 001/009 Approved Label | 305-072 | G | 26/02/21 |
| 001/00A, 004/007, 009/00D Approved Label Blank | 305-143 | D | 29/03/21 |
| 001/00A, 004/007, 009/00D Approved Label | 305-143-001 | B | 15/02/21 |
| 001/00A, P&F Cat 1 T6 56°C Approved Label | 305-143-002 | B | 02/03/21 |



SCHEDULE

EU TYPE EXAMINATION CERTIFICATE NUMBER: ITS 03ATEX21478X R.0

| TITLE | DOCUMENT Nr | LEVEL | DATE |
|---|-------------------|-------|----------|
| 001/00A, P&F CAT 1 68°C 169mW Barrier Approved Label | 305-143-003 | B | 02/03/21 |
| 001/00A, P&F Cat 1 53°C 242mW Barrier Approved Label | 305-143-004 | B | 02/03/21 |
| 001/00A IFM CAT 2 IIC T6 70°C Options Approved Label | 305-143-005 | B | 02/03/21 |
| 001/00A, Cat 2 80°C T5 Approved Label | 305-143-006 | B | 02/03/21 |
| 001/00A, IFM CAT 2 T4 IIC Standard Approved Label | 305-143-007 | B | 02/03/21 |
| 001/00A, P&F CAT 2 74°C 242mW Barrier Approved Label | 305-143-008 | B | 02/03/21 |
| 001/00A, IFN Cat 1 IIB T6 70°C Approved Label | 305-143-009 | B | 02/03/21 |
| 001/00A, IFM Cat 1 IIB T5 80°C Approved Label | 305-143-010 | B | 02/03/21 |
| Instructions – 001 & 00A (3 Pages) | TD 206-1 | B | 08/03/21 |
| Instructions – 004 & 007 (3 Pages) | TD 209-1 | B | 08/03/21 |
| Instructions – 009 & 00D (3 Pages) | TD 212 | C | 08/03/21 |
| Kinetrol Installation Instructions - Type ULS Limit Switch Box- Suitable for direct mount to Kinetrol Actuators Size Range: 03 to 15 & Discrete Mount Option Switch Type: 001 | KF-468- MAR/21 | - | 01/03/21 |
| Kinetrol Installation Instructions - Type ULS Limit Switch Box- Suitable for direct mount to Kinetrol Actuators Size Range: 03 to 15 & Discrete Mount Option Switch Type: 001 | KF-469- MAR/21 | - | 01/03/21 |

Copies of the above listed documents are kept at Intertek Italia S.p.A. archive.

15. SPECIFIC CONDITIONS OF USE

When installed in a Zone 0 potentially explosive atmosphere requiring EPL Ga apparatus, the equipment shall be installed such that even in the event of rare incidents, an ignition source due to impact or friction on or between the aluminium alloy parts of the enclosure excluded.

16. ESSENTIAL HEALTH AND SAFETY REQUIREMENTS

The relevant Essential Health and Safety Requirements have been identified and assessed in Intertek Report Nr. 104048444ALHD-001 dated 17th March 2023.

17. ROUTINE (FACTORY) TESTS

None.



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18. DETAIL OF CERTIFICATE CHANGES

R.0 (17th April 2023):

- Initial release by Intertek Italia S.p.A. NB 2575 based on the assessment performed in March 2023 and on the certificate legal ownership transferred from Intertek Testing & Certification Ltd. (NB 0359); the same issued original certificate number is used.
- Re-design of the ULS to create the VLS - Sealing of the enclosure changed from gasket to O-ring.
- Re-assessment to IEC EN 60079-0:2018.
- Coupling Material changed from plated mild steel to glass filled Nylon.