



1. EC-TYPE EXAMINATION CERTIFICATE

2. Equipment or Protective System Intended for use in Potentially Explosive Atmospheres Directive 94/9/EC

3. EC-Type Examination Certificate Number: ITS03ATEX21478X Issue 2

4. Equipment or Protective System: TYPE ULS 001 and 009 LIMIT SWITCH BOX

5. Manufacturer: KINETROL LIMITED

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

7. This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8. Intertek Testing and Certification Limited, notified body number 0359 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, 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 confidential Intertek Report Ref. 03010345, dated August 2003, Intertek Report Ref G101397490 dated January 2014 and Intertek Report Ref G102247499 dated December 2015.

9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with standards EN 60079-0:2012 and EN 60079-11:2012 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 equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

11. This EC Type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

12. The marking of the equipment or protective system shall include the following:-



II 1 G D

Ex ia IIC T4 Ga

Ex ia IIIC T130°C Ga

-20°C ≤ Ta ≤ 80°C



A T Austin
Certification Officer
12 February 2016

Intertek Testing & Certification Limited
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Registered No 3272281 Registered Office: Academy Place, 1-9 Brook Street, Brentwood, Essex, CM14 5NQ.

This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

SCHEDULE

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13. Description of Equipment or Protective System

The Type ULS Limit Switch Box consists of an enclosure fitted with either one or two approved inductive sensors Type NJ2-V3-N..., IECEx PTB 11.0021X or IFM NS5002, IECEx BVS 06.0003, to form a Type ULS 001 unit or one or two microswitches to form a Type 009 unit.

The equipment is to be fitted to valve actuators in the Kinetrol range 03 to 14 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.

Both internal and external earthing facilities are provided. The enclosure provides a degree of protection of at least IP54.

The maximum input parameters per sensor Type ULS 001 are:

$$\begin{aligned}U_i &= 16 \text{ V} \\I_i &= 25 \text{ mA} \\P_i &= 64 \text{ mW}\end{aligned}$$

The maximum input parameters per microswitch Type USL 009 are:

$$\begin{aligned}U_i &= 28 \text{ V} \\I_i &= 93 \text{ mA} \\P_i &= 655 \text{ mW}\end{aligned}$$

14. Report Number

Intertek Report Ref. 03010345, dated August 2003
Intertek Report Ref G101397490 dated January 2014
Intertek Report Ref G102247499 dated December 2015

15. Conditions of Certification

(a). Special Conditions for safe 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 between the aluminium alloys parts of the enclosure are excluded.

(b). Conditions of Manufacture

- None

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16. Essential Health and Safety Requirements (EHSR's)

The relevant EHSR's have been identified and assessed in Intertek Report Ref. 03010345, dated August 2003

17. Drawings and Documents

Title	Drawing No.:	Rev. Level:	Date:
Label 001	305-072	B	08.08.03
Label 009	305-073	B	08.08.03
Technical file	KTR 119	-	07.08.03
Installation Instructions 001	KF-468	-	27.08.03
Installation Instructions 009	KF-469	-	27.08.03

18. Revisions

Variation One: Intertek Report Ref G101397490 dated January 2014

To Permit the following changes:

- Re-assessments of the TYPE ULS 001 and 009 LIMIT SWITCH BOX to the requirements of the latest standards EN 60079-0: 2012, EN 60079-11:2012 and EN 60079-26:2007.
- Include non-metallic monitor with anti-static film which forms part of the metallic enclosure as part of this certification.
- Include additional approved inductive sensor IFM NS5002, IECEx BVS 06.0003 for ULS 001 as part of this certification.
- Changes to appropriate documents to reflect the above changes.

Drawings

Title	Drawing No.:	Rev. Level:	Date:
ULS BOX GENERAL CONSTRUCTION AND LABELLING	305-000-084	A	05/12/13
ULS BOX GENERAL CONSTRUCTION AND LABELLING	305-000-083	A	22/01/14
MONITOR WITH ANTI-STATIC FILM	52-000-349	A	04/09/13
APPROVED LABEL	305-072	C	08/11/13
LID, DIE-CAST CERTIFICATION DRAWING	SK 3290	B	25/11/13
UNIVERSAL LIMIT SWITCH BOX CERTIFICATION DRAWING – SIZES 03 – 14 & DISCRETE	SK 3291	B	28/11/13
Installation Instructions 001	KF-468	-	04/12/13
Installation Instructions 009	KF-469	-	04/12/13

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Variation Two: Intertek Report Ref G102247499 dated December 2015

To permit the following changes:

1. Modifications made to the joints of the IP54 enclosure for the equipment.
2. Alternative metallic materials used for the enclosure
3. Drawings modified to reflect the above changes.

Title	Drawing No.:	Rev. Level:	Date:
UNIVERSAL LIMIT SWITCH 3D 30502 APPROVED LABEL 001 & 009 TYPE SWITCHES	305-072	D	20.01.16
ULS BOX GENERAL CONSTRUCTION AND LABELLING (CODE 009)	305-000-084	B	28-01-16
ULS BOX GENERAL CONSTRUCTION AND LABELLING (CODE 001)	305-000-083	B	28-01-16
UNIVERSAL LIMIT SWITCH BOX CERTIFICATION DRAWING 03 TO 15 & DISCRETE	SK3291A	A	30-06-15
UNIVERSAL LIMIT SWITCH BOX LID, DIE-CAST CERTIFICATION DRAWING	SK3290A	A	30-06-15
UNIVERSAL LIMIT SWITCH BOX LID, DIE-CAST CERTIFICATION DRAWING	SK3290Z	A	30-06-15
UNIVERSAL LIMIT SWITCH BOX CERTIFICATION DRAWING 03 TO 15 & DISCRETE	SK3291Z	A	30-06-15
Installation Instructions 001	KF-468	-	Jan 2016
Installation Instructions 009	KF-469	-	Jan 2016

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