

UK-TYPE EXAMINATION CERTIFICATE

Product or Protective Systems Intended for Use in Potentially Explosive Atmospheres

UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1

- UK-Type Examination Certificate Number:** ITS21UKEX0035X **Issue 0**
- Product:** TYPES ULS and VLS 00A, 00D, 001, 004, 007 and 009 LIMIT SWITCH BOX
- Manufacturer:** KINETROL LIMITED
- Address:** Trading Estate, Farnham, Surrey, GU9 9NU
- This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- Intertek Testing and Certification Limited, Approved Body number 0359, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in the confidential report 104048444ALHD-001 dated 17th March 2023.
- Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN IEC 60079-0:2018 and EN 60079-11:2012 except in respect of those requirements referred to within item 14 of the Schedule.
- If the sign “X” is placed after the certificate number, it indicates that the product is subject to the special conditions of use specified in the Schedule to this certificate.
- This UK-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Regulations apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- 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

Certification Officer: _____ **Date:** 17th April 2023
M Newman

SCHEDULE:

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11. Description of Product or Protective System

The Type VLS / ULS 001, 00A and 009, 00D and 004, 007 Ex ia Limit Switches consist 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 PTB00ATEX2032X, 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 on to 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 a 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 1GD, 80°C options
II 1D Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +80°C	
II 2G Ex ia IIC T6 Gb	VLS Type 001/00A Category 2, IIC, T6, 70°C options
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 options
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 options
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 barrier option
II 1D Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +74°C	
II 1G Ex ia IIB T6 Ga	VLS Type 001/00A, Category 1G, IIB, T6, 70°C options
II 1D Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +70°C	
II 1G Ex ia IIB T5 Ga	VLS Type 001/00A, Category 1G, IIB, T5, 80°C options
II 1D Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +80°C	

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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
Ci (nF)	40				80				n/a	n/a	
Li (µH)	50				110				n/a	n/a	

UKCA Marking shall be accompanied by the identification number of the Approved Body responsible for surveillance of production.

12. Report Number

Intertek Report: 104048444ALHD-001 dated 17th March 2023.

13. Special Conditions of Certification

(a). Special 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.

(b). Conditions of Manufacture - Routine Tests

- None.

14. Essential Health and Safety Requirements (EHSRs)

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

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15. Drawings and Documents

Title:	Drawing No.:	Rev. 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 2 Port Approval Drawing	305-420-013	C	18/01/21
VLS Box 4 Port 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 74°C Approved Label	305-143-002	B	02/03/21
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 73°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

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