



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX ITS 13.0052X** Page 1 of 5 Certificate history:  
Status: **Current** Issue No: 3 [Issue 2 \(2016-02-26\)](#)  
Date of Issue: 2023-04-17 [Issue 1 \(2015-12-16\)](#)  
[Issue 0 \(2014-02-04\)](#)  
Applicant: **KINETROL LIMITED**  
Trading Estate  
Farnham  
Surrey  
GU9 9NU  
**United Kingdom**  
Equipment: **TYPE ULS and VLS UNIVERSAL LIMIT SWITCH BOX**  
Optional accessory:  
Type of Protection: **Intrinsic safety 'ia'**  
Marking: Ex ia IIB/IIC T4 ...T6 Ga/Gb  
Ex ia IIIC T130°C Da  
-20°C ≤ Ta ≤ up to +80°C depending on type of switch/ sensor used  
IECEX ITS 13.0052X

Approved for issue on behalf of the IECEx  
Certification Body:

**Mark Newman**

Position:

**Certificate Officer**

Signature:  
(for printed version)

Date:  
(for printed version)

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Certificate issued by:

**Intertek Testing & Certification Limited**  
ITS House, Cleeve Road  
Leatherhead  
Surrey, KT22 7SA  
**United Kingdom**

**intertek**



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Trading Estate  
Farnham  
Surrey  
GU9 9NU  
**United Kingdom**

Manufacturing locations: **KINETROL LIMITED**  
Trading Estate  
Farnham  
Surrey  
GU9 9NU  
**United Kingdom**

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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 Reports:

[GB/ITS/ExTR13.0058/00](#)

[GB/ITS/ExTR13.0058/01](#)

[GB/ITS/ExTR13.0058/02](#)

Quality Assessment Report:

[GB/SIR/QAR07.0011/10](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Type ULS/ VLS 001, 00A and 009, 00D and 004, 007 Ex iaLimit 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 IECEx PTB 11.0021X, or Type NS5002, certified IECEx BVS 06.0003 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.

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

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 alloy parts of the enclosure are excluded.



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**Equipment (continued):**

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

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

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

<b>Kinetrol option</b>	<b>001 / 00A</b>								<b>001 / 00A</b>				<b>009 / 00D</b>	<b>004 / 007</b>	
<b>Switch Manufacturer</b>	Pepperl & Fuchs								IFM				Crouzet	Crouzet	
<b>Switch manufacturer's designator</b>	NJ2-V3-N								NS5002				831618	83263	
<b>Atex certificate number</b>	PTB00ATEX2032 X								PTB01ATEX2191				na	na	
<b>IECEx Certificate number</b>	IECEx PTB 11.0021X								IECEx BVS 06.0003				na	na	
<b>Ui (V)</b>	16								15				28	28	
<b>Ii (mA)</b>	25	25	52	76	25	25	52	76	50					93	93
<b>Pi (mW)</b>	34	64	169	242	34	64	169	242	120					550	550
<b>Maximum Ambient Temperature (°C)</b>	56	80	68	53	73	80	80	74	70	80	70	80	80	80	
<b>T rating</b>	T6	T4	T4	T4	T6	T5	T4	T4	T6	T5	T6	T5	T4	T4	
<b>Equipment category</b>	1	1	1	1	2	2	2	2	1	1	2	2	1	1	
<b>Gas Group</b>	IIC								IIB	IIB	IIC	IIC	IIC	IIC	
<b>Ci (nF)</b>	40								80				na	na	
<b>Li (µH)</b>	50								110				na	na	



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## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1:

Intertek Report Ref G102247499 dated December 2015

To permit the following changes:

Modifications made to the joints of the IP54 enclosure for the equipment

Drawings modified to reflect the above changes

Issue 2:

Intertek Report Ref: G102247499 dated December 2015

To permit the following changes:

Alternative metallic materials used for the enclosure - zinc or aluminium

Drawings modified to reflect above changes

Issue 3 (This Issue):

Intertek Report Ref: G104048444A

To permit the following changes:

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

## Annex:

[IECEx ITS 13.0052X - Annex for IECEx Certificate of Conformity.pdf](#)



## Annex to IECEx Certificate of Conformity

<b>Certificate No:</b>	IECEX ITS 13.0052X	<b>Issue No. 3</b>
<b>Annex No. 1</b>		

<b>Technical Documents</b>			
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

*Note: An \* is included before the title of documents that are new or revised.*



## Annex to IECEx Certificate of Conformity

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IECEX Certified Components on Which Conformance Depends					
Item	Description	Manufacturer	Type	Certificate No. / Standards*	Coding / Ratings
1	Sensor	Pepperl & Fuchs	NJ2-V3-N (for Switch Types 001/009)	IECEX PTB 11.0021X 001 / IEC 60079-0:2017 & IEC 60079-11:2011	Ex ia IIC T6...T1 Ga
2	Sensor	iFM	NS5002	IECEX BVS 06.003 / IEC 60079-0:2017 & IEC 60079-11:2011	Ex ia IIC T6 Ga
3	Terminal	Weidmuller	MK 3/3/E	IECEX TUR 18.0019U / IEC 60079-0:2017 & IEC 60079-7:2017	Ex eb IIC Gb