

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1**

3 UK-Type Examination Certificate Number: **BAS21UKEX0280X**

4 Product: **XLS Box**

5 Manufacturer: **Kinetrol Limited**

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

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 confidential Report No. **21(C)0240**

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 60079-31: 2014

except in respect of those requirements listed at item 18 of the Schedule.

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

11 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.

12 The marking of the product shall include the following:

**⊕ II 2 GD Ex db IIC T* Gb Ta -40°C to +*°C
Ex tb IIIC T*°C Db IP66 Ta -20°C to +*°C
or
Ex db IIC T6 Gb -40°C ≤ ta ≤ +60°C***

*** See Schedule**

SGS Baseefa Customer Reference No. **0622**

Project File No. **21/0240**

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0191

R S Sinclair

**R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited**

13

Schedule

14

Certificate Number BAS21UKEX0280X

15 Description of Product

The XLS Box comprises a circular enclosure with a threaded cover manufactured from aluminium. The enclosure has a steel operating rod passing through the centre of the base and cover. The top of the operating rod may be fitted with an indicating assembly, and the base of the shaft is fitted with a square socket for connection to various types of instruments. Internally there is a series of microswitches, a PCB, and connecting terminals which may be installed in different configurations to create different Flameproof Limit Switch units.

Alternatively, the limit switch may be provided with flame arresters and pneumatic switches within the enclosure when the maximum air line pressure is 7bar and the maximum ambient temperature is 60°C. Models with this arrangement are designated with the model number *****XE**S****, and are not for use in explosive dust atmospheres.

Cable entry holes are provided as specified on the certified drawings for the accommodation of flameproof cable entry devices, with or without the interposition of a flameproof thread adapter. Unused entries are to be fitted with suitable certified stopping plugs. When used in an explosive dust atmosphere, the cable entry devices shall maintain the ingress protection of the enclosure.

Internal and external earthing facilities are provided.

The equipment may be marked:

Ex db IIC T5/T6 Gb
T5 $-40^{\circ}\text{C} \leq t_a \leq +80^{\circ}\text{C}$ / T6 $-40^{\circ}\text{C} \leq t_a \leq +70^{\circ}\text{C}$
Ex tb IIIC T95°C Db $-20^{\circ}\text{C} \leq t_a \leq +80^{\circ}\text{C}$ IP 66

Equipment with model number *****XE**S**** shall be marked:

Ex db IIC T6 Gb $-40^{\circ}\text{C} \leq t_a \leq +60^{\circ}\text{C}$

16 Report Number

SGS Baseefa Report 21(C)0240

17 Specific Conditions of Use

1. It is the responsibility of the installation engineer to ensure that suitably IECEX/ATEX gas group IIC equipment certified cable glands and blanking plug are installed, which are suitable for the ambient temperature range, in accordance with IEC60079-14. Selection of entry devices shall also ensure that the IP rating of IP66 is maintained.
2. Potential electrostatic charging hazard – See instruction.
3. Flameproof joints are not intended to be repaired
4. When fitted with flame arrestors the equipment must not be used where atmospheric pressure exceeds 1070mbar. (1.07bar)

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
99-095-3	1	A	05-04-22	UKEX approval label
99-097-7	1	A	05-04-22	UKEX label portion
99-097-8	1	A	05-04-22	Triple approval label UKEX
99-097-9	1	A	05-04-22	Dual approval label UKEX
99-346-3	1	A	05-04-22	UKEX approval label for XLS fitted with breathing devices *****XE**S***** or production specification

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