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: **BAS21UKEX0422**

4 Product: **K1 Series Switchbox**

5 Manufacturer: **Topworx Incorporated**

6 Address: **3300 Fern Valley Road, Louisville, Kentucky, 40213, USA**

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. **GB/BAS/ExTR21.0096/00**

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:

Ⓔx II 2 GD Ex db IIC T* Gb
Ex tb IIIC T*°C Db IP66/67/68**
Ta (see schedule)

Ⓔx II 2 GD Ex db IIC T6/T4 Gb
Ex tb IIIC T85°C / T135°C Db IP**
Ta (see schedule)

SGS Baseefa Customer Reference No. **2191**

Project File No. **21/0331**

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UKAS PRODUCT CERTIFICATION
0191

R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

13 # Schedule

14 ## Certificate Number BAS21UKEX0422

15 Description of Product

The Type K1 Series switchbox comprises an upper and base housing manufactured from aluminium alloy, or stainless steel. The two halves are secured by two M6 screws of minimum grade A2-70 stainless steel.

The enclosure may contain terminals, an electronics module, and cams attached to a shaft which passes through the base housing. The cams operate switches, proximity sensors or potentiometers. The upper housing is fitted with a shaft, driven from the cam shaft, to provide an external visual indication of shaft position. The combination of switches, sensors, proximity sensors or potentiometers etc are coded for temperature classification and maximum ambient temperature as listed. The maximum ratings are specified on the schedule drawings.

The base is provided with up to two threaded cable entries, and the position monitor is rated up to 275V 10A.

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 adaptor. Unused entries are to be fitted with certified flameproof stopping plugs.

When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure.
The cable entry devices, thread adaptors and stopping plugs shall be suitable for the equipment, the cable and the conditions of use, and shall be certified as Equipment (not a Component).

For subtypes identified as EC4.x – T4/T135°C (Ta -60°C to +80°C)
For subtypes identified as EC4H.x – T4/T135°C (Ta -60°C to +120°C)
For subtypes identified as EC6.x – T6/T85°C (Ta -60°C to +40°C)
For subtypes identified as EC6H.x – T6/T85°C (Ta -60°C to +70°C)

16 Report Number

GB/BAS/ExTR21.0096/00

17 Specific Conditions of Use

None

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
CERT-ES-09198-1	1 of 1	AA	04/19/2022	CERTIFICATION LABEL K1 SERIES Ex d IIC
CERT-ES-09199-1	1 to 2	AA	04/19/2022	CERTIFICATION LABEL K1 SERIES Ex d IIC Marking Parameters
Baseefa16ATEX0121				Certificate