

UK-TYPE EXAMINATION CERTIFICATE

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

- 1 UK-Type Examination Certificate Number: **BAS21UKEX0423**
- 2 Product: **K2 Series Switchbox**
- 3 Manufacturer: **Topworx Incorporated**
- 4 Address: **3300 Fern Valley Road, Louisville, Kentucky, 40213, USA**
- 5 This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 6 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.
- 7 The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR21.0096/00**
- 8 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0: 2018 EN 60079-1: 2014 EN60079-31: 2014
except in respect of those requirements listed at item 18 of the Schedule.
- 9 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.
- 10 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.
- 11 The marking of the product shall include the following:

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

⊕ 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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SGS Baseefa Limited

Rockhead Business Park, Staden Lane,
Buxton, Derbyshire SK17 9RZ
Telephone +44 (0) 1298 766600 Fax +44 (0) 1298 766601
e-mail baseefa@sgs.com web site www.sgs.co.uk/sgsbaseefa
Registered in England No. 4305578.
Registered address: Rossmore Business Park, Ellesmere Port, Cheshire,
CH65 3EN



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

13 **Schedule**

14 **Certificate Number BAS21UKEX0423**

15 **Description of Product**

The Type K2 Series switchbox comprises a cast cylindrical enclosure and flanged cover both manufactured from stainless steel or aluminium.

The cover is secured with four M6, 16mm long stainless-steel socket head cap screws grade A2-70 minimum.

The enclosure may contain terminals, an encapsulated electronic module, a potentiometer and up to four cams attached to a shaft which passes through the base of the enclosure. The cams operate either switches or proximity sensors. The cover may be fitted with a shaft, driven from the cam shaft, to provide an external visual indication of the shaft position.

The internal arrangements have various ratings up to 275V.

Up to four cable entry holes are provided 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 flameproof stopping plugs.

The cable entry devices, thread adapters 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). When used in an explosive dust atmosphere the cable entry devices shall maintain the ingress protection of the enclosure

For subtypes identified as E4.x – T4/T135°C (Ta -50°C to +80°C)

For subtypes identified as E4H.x – T4/T135°C (Ta -50°C to +120°C)

For subtypes identified as E5.x – T5/T100°C (Ta -50°C to +40°C)

For subtypes identified as E6.x – T6/T85°C (Ta -50°C to +40°C)

For subtypes identified as E6H.x – T6/T85°C (Ta -50°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-09200-1	1 of 1	AA	4/19/2022	CERTIFICATION LABEL K2 SERIES Ex d IIC
CERT-ES-09201-1	1 to 2	AA	4/19/2022	CERTIFICATION LABEL K2 SERIES Ex db IIC
Baseefa16ATEX0122				Certificate