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

Certificate No.:	**IECEx BAS 16.0093**	Page 1 of 4	Certificate history:
Status:	**Current**	Issue No: 2	Issue 1 (2018-08-22) Issue 0 (2016-10-18)
Date of Issue:	2023-09-08		

Applicant: **Topworx Incorporated**
3300 Fern Valley Road
Louisville
Kentucky
40213
United States of America

Equipment: **K2 Series Switchbox**

Optional accessory:

Type of Protection: **Flameproof, Enclosure**

Marking: **Ex db IIC T* Gb**
Ex tb III C T*°C Db IP66/67/68**
Ta (see schedule)

Alternative marking:
Ex db IIC T6/T4 Gb
Ex tb III C T85°C / T135°C Db IP**
Ta (see schedule)

Approved for issue on behalf of the IECEx Certification Body: **R S Sinclair**

Position: **Technical Manager**

Signature: (for printed version)

Date: (for printed version) 8/9/2023

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

SGS UK Limited
Rockhead Business Park
Staden Lane
Buxton, Derbyshire SK17 9RZ
United Kingdom

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Certificate No.: **IECEx BAS 16.0093**

Date of issue: 2023-09-08

Issue No: 2

Manufacturer: **Topworx Incorporated**
3300 Fern Valley Road
Louisville
Kentucky
40213
United States of America

Manufacturing locations: **Topworx Incorporated**
3300 Fern Valley Road
Louisville
Kentucky
40213
United States of America

Asco Joucomatic Limited Trading as
Asco Numatics
2 Pit Hey Place
West Pimbo
Skelmersdale
Lancashire WN8 9PG
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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-1:2014 Edition:7.0 — Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"

IEC 60079-31:2013 Edition:2 — Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"

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 Report:

GB/BAS/ExTR16.0224/00

Quality Assessment Reports:

GB/SIR/QAR06.0056/11 GB/SIR/QAR07.0025/11

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

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)

SPECIFIC CONDITIONS OF USE: NO

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Variation 2.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC 60079-0: 2017 Edition 7

ExTR: **GB/BAS/ExTR21.0096/00**	File Reference: **21/0331**