



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 16.0092** 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: **K1 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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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](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/BAS/ExTR16.0223/00](#)

[GB/BAS/ExTR21.0096/00](#)

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 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)

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**