



# 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](http://www.iecex.com)

Certificate No.:	<b>IECEX BAS 12.0098X</b>	Page 1 of 4	<u>Certificate history:</u>
Status:	<b>Current</b>	Issue No: 4	Issue 3 (2020-03-24)
Date of Issue:	2023-09-08		Issue 2 (2019-04-29)
Applicant:	<b>Topworx Incorporated</b> 3300 Fern Valley Road Louisville Kentucky 40213 <b>United States of America</b>		Issue 1 (2015-06-12)
Equipment:	<b>Series 10/20 GO Switch</b>		Issue 0 (2013-04-09)
Optional accessory:			
Type of Protection:	<b>Flameproof/Increased Safety &amp; Dust Protection by Enclosure</b>		
Marking:	<b>Ex db eb IIC T6 Gb (T<sub>amb</sub> -40°C to 60°C)</b> <b>Ex tb III C T85°C Db (T<sub>amb</sub> -40°C to 60°C)</b> <b>IP66 and IP68 - submerged at 1 meter for 60 Minutes</b>		

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](http://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 12.0098X**

Page 2 of 4

Date of issue: 2023-09-08

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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**

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

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"  
Edition:5.1

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/ExTR12.0199/00](#)  
[GB/BAS/ExTR20.0049/00](#)

[GB/BAS/ExTR15.0157/00](#)  
[GB/BAS/ExTR21.0096/00](#)

[GB/BAS/ExTR19.0095/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0025/11](#)



# IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 12.0098X**

Page 3 of 4

Date of issue: 2023-09-08

Issue No: 4

## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

The Series 10/20 Limit Switches comprise a rectangular enclosure manufactured in stainless steel.

A sealed magnetically operated switch mechanism is located at the closed end, with an Exe terminal enclosure with up to four screw terminals at the other end. The terminal enclosure is closed by a stainless-steel plate with a gasket and four 8-32 x 5/16" stainless steel screws.

A cable entry boss threaded 1/2" NPT (or M20) is provided either on the cover plate or the side wall of the enclosure for the fitting of suitably certified cable entry devices.

The electrical ratings of the switches may be 4A/240Vac, 4A/120Vac, 4A/24Vdc, or 0.5A/125Vdc

## **SPECIFIC CONDITIONS OF USE: YES as shown below:**

1. External earth bonding can be achieved via the mounting fixings. These fixings should be in stainless steel or an alternative non-ferrous metal in order to minimize both corrosion and magnetic interference of the switch function. The connection shall be made in such a manner as to prevent loosening and twisting (e.g. with shaped lugs/nuts and locking washers).
2. Suitably certified cable entry devices shall be installed in accordance with IEC60079-14 and must maintain the ingress protection (IP) rating of the enclosure. The cable entry device thread shall not protrude within the enclosure body (i.e. shall maintain the clearance to the terminals).
3. Only one single or multiple strand conductor of size 16 to 18 AWG (1.3 to 0.8mm<sup>2</sup>) is to be accommodated in each terminal. The insulation of each conductor shall extend to within 1mm of the terminal clamping plate. Connection lugs and/or ferrules are not permitted.
4. The terminal screws are to be tightened down to 0.06Nm



# IECEX Certificate of Conformity

Certificate No.: **IECEX BAS 12.0098X**

Page 4 of 4

Date of issue: 2023-09-08

Issue No: 4

## DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

### Variation 4.1

To confirm that the equipment covered by this certificate has been reviewed against the requirements of IEC 60079-7: 2017 Edition 5.1.

### Variation 4.2

To add the switch electrical ratings to the equipment description.

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

File Reference: **21/0331**