



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx BAS 09.0135X issue No.:3

Status: **Current**

Date of Issue: **2012-11-27** Page 1 of 4

Certificate history:

Issue No. 3 (2012-11-27)
Issue No. 2 (2011-12-22)
Issue No. 1 (2011-9-22)
Issue No. 0 (2010-9-17)

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

Electrical Apparatus: **70 Series Connection Head**
Optional accessory:

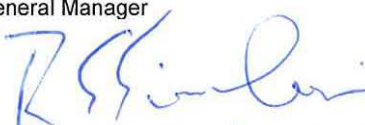
Type of Protection: **Flameproof, Increased Safety, Dust, Protection by Enclosure**

Marking: **Ex de IIC T6 (-40°C ≤ Ta ≤ +50°C) Gb**
or T4 (-40°C ≤ Ta ≤ +100°C)
Ex tb IIIC T85°C (-40°C ≤ Ta ≤ +50°C) Db IP66
or T130°C (-40°C ≤ Ta ≤ +100°C)

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

Position: General Manager

Signature:
(for printed version)



27-11-12

Date:

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 the [Official IECEx Website](http://www.iecex.com).

Certificate issued by:

SGS Baseefa 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 location(s):

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 electrical apparatus 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 : 2007-10 Edition: 5	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2007-04 Edition: 6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition: 1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'
IEC 60079-7 : 2006-07 Edition: 4	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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/ExTR09.0191/00
GB/BAS/ExTR12.0301/00

GB/BAS/ExTR11.0222/00

GB/BAS/ExTR11.0308/00

Quality Assessment Report:

GB/SIR/QAR07.0025/04



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The 70 Series Go Switch with Connection Head, comprises of:-

The connection head, which is a $\varnothing 68\text{mm} \times 56\text{mm}$ aluminium terminal box and screwed on lid, complete with 3 or 6 off Ex e II PCB pin mounted terminal blocks and 1 PCB pin mounted earth terminal, Phoenix type FRONT 2,5.... The PCB wire connections are mechanically secured using epoxy resin. The connection head has two threaded entry holes in bosses in the box wall that may be M20x1.5P, $\frac{1}{4}$ "NPT or $\frac{1}{2}$ "NPT. One entry hole is for a suitable IECEx certified cable gland and the other entry is fitted with a TOPWORX 70 Series GO Switch to IECEx BAS08.0122X via a suitably certified $\frac{1}{2}$ " male NPT to NPT adaptor.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The 70 Series Go Switch with Connection Head assembly shall be suitably earthed by its installation via the male thread of the Go Switch body.
2. Do not allow dust layers to build up on this product.
3. All terminal screws, used and unused, shall be fully tightened down by the end user.
4. No more than one single or multi-stranded lead shall be connected to the terminal unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated bootlace ferrule, or any method indicated on the terminal certificate.
5. All terminals, and accessories such as cross-connectors, shall be installed in accordance with the terminal manufactures instructions. Topworx Incorporated will supply the relevant terminal manufacturer's instructions with each assembly covered by this certificate.
6. The maximum voltage and current shown on the rating label must not be exceeded.
7. When connecting conductors of cross section below the maximum 2.5mm^2 allowed for the terminal then the maximum amps per pole must be reduced inline with the maximum amps permitted for a terminal equivalent to the conductor size fitted.



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

Variation 3.1

Introduction of an alternative connection head in Stainless Steel and a repositioning of the cover locking screw from the top to the side of the connection head cover

Variation 3.2

A review of the Temperature Class and Ambient Temperature combinations.

The units may be marked with the following amended codings, or combinations thereof :-

Ex de IIC T6 (-40°C ≤ Ta ≤ +50°C) Gb
or T4 (-40°C ≤ Ta ≤ +100°C)

Ex tb IIIC T85°C (-40°C ≤ Ta ≤ +50°C) Db IP66
or T130°C (-40°C ≤ Ta ≤ +100°C)

ExTR: GB/BAS/ExTR12.0301/00

File Reference: 12/0639