

1 **EC - TYPE EXAMINATION CERTIFICATE**

2 **Component Intended for use on/in an Equipment or Protective System  
Intended for use in Potentially Explosive Atmospheres - Directive 94/9/EC**

3 EC - Type Examination Certificate Number: **Baseefa15ATEX0137U**

4 Component: **Series 36 Go Switch**

5 Manufacturer: **Topworx Incorporated**

6 Address: **3300 Fern Valley Road, Louisville, Kentucky 40213. USA**

7 This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

8 Baseefa, Notified Body number 1180, in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report No. GB/BAS/ExTR15.0225/00

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0: 2012 + A11: 2013 EN 60079-11: 2012**

except in respect of those requirements listed at item 18 of the Schedule.

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.

11 This EC - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified Component. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.

12 The marking of the component shall include the following :

**⊕ II 1 G Ex ia IIC Ga**

Baseefa Customer Reference No. **2191**

Project File No. **15/0335**

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R S SINCLAIR  
GENERAL MANAGER

On behalf of SGS Baseefa Limited

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## Schedule

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Certificate Number Baseefa15ATEX0137U

### 15 Description of Component

The Series 36 GO Switches are mechanically operated switches which are actuated by the presence of an external ferrous body. The component comprises two single pole double throw switch assemblies mounted on a printed circuit board encapsulated in a moulded plastic enclosure. External connections to the switches are made via screw terminals mount on top of the module.

The switches are rated up to 30V peak a.c or d.c, and 0.25A and may be used to switch a circuit from a certified intrinsically safe source. The switches are capable of withstanding a 500V test to earth.

The Series 36 GO Switches do not require connection to earth for safety purposes, but an earth connection is provided which is connected directly to the two metallic switch enclosures on the component and must be used with care in any intrinsically safe system.

The Series 36 GO Switches are available in both left and right hand orientations. In terms of intrinsic safety both variants are identical.

#### Input Parameters – Each Switch Circuit

$U_i$	=	30V	$C_i$	=	0
$I_i$	=	0.25A	$L_i$	=	0

### 16 Report Number

GB/BAS/ExTR15.0225/00

### 17 Schedule of Limitations

1. The component must be installed within an enclosure which protects the component from impact and provides a degree of protection of at least IP20 in accordance with EN 60529.
2. The component has a maximum surface temperature rise of less than 5°C.
3. The component has a maximum service temperature range of -55°C to +150°C.
4. The component must only be connected to circuits limited to Overvoltage Categories I/II/III as defined in IEC 60664-1.
5. The component does not require a connection to earth for safety purposes, but an earth connection is provided which is directly connected to the metallic switch enclosures. Normally an intrinsically safe circuit may be earthed at one point only. If the earth connection is used, the implication of this must be fully considered in any installation. i.e. by the use of a galvanically isolated interface.

### 18 Essential Health and Safety Requirements

As follows, in addition to those covered by the standards at item 9.

Clause	Subject	Compliance
1.2.7	LVD type requirements	Manufacturer responsibility
1.2.8	Overloading of equipment (protection relays, etc.)	User/Installer responsibility
1.4.1	External effects	User/Installer responsibility
1.4.2	Aggressive substances, etc.	User/Installer responsibility

**19 Drawings and Documents**

<b>Number</b>	<b>Sheet</b>	<b>Issue</b>	<b>Date</b>	<b>Description</b>
CERT-ES-03333-1	1 of 1	7	10/20/15	36-Series Go Switch Assy T-Series
CERT-ES-03336-1	1 of 1	3	10/19/15	Cirlex Dot 36-Series Go Switch T-Series
CERT-ES-03856-1	1 of 1	6	07/01/15	Left Cluster Cover T-Series
CERT-ES-03880-1	1 of 1	3	10/28/2014	Left Cluster Potting Cell T-Series
CERT-ES-03881-1	1 to 4	5	07/29/2015	Left Cluster PCBA T-Series
CERT-ES-03882-1	1 of 1	4	07/29/2015	Cluster Left Assembly
CERT-ES-03883-1	1 of 1	7	07/01/15	Right Cluster Cover T-Series
CERT-ES-03884-1	1 of 1	3	10/28/2014	Right Cluster Potting Cell T-Series
CERT-ES-03885-1	1 to 4	3	06/26/15	Right Cluster PCBA T-Series
CERT-ES-03886-1	1 of 1	3	07/29/2015	Cluster Right Assembly
CERT-ES-05192-1	1 of 1	2	01/18/16	Label, 36 Series Go Switch ATEX / IECEx Intrinsically Safe
CERT-PS-00922-1	1 of 1	1	6/24/2013	Terminal End Piece
CERT-PS-00925-1	1 of 1	1	6/24/2013	Terminal Blocks

The above drawings are associated and held with IECEx Certificate No. IECEx BAS 15.0092U Iss. 0