

1 **UK-TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres**
UKSI 2016:1107 (as amended) – Schedule 3A, Part 1

3 UK-Type Examination Certificate Number: **BAS21UKEX0424X**

4 Product: **70 Series GO Switch 73 Series**

5 Manufacturer: **Topworx Incorporated.**

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

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

8 SGS Baseefa, Approved Body number 1180, in accordance with Regulation 43 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Schedule 1 of the Regulations.

The examination and test results are recorded in confidential Report No. **GB/BAS/ExTR21.0096/00**

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

EN IEC 60079-0: 2018 EN 60079-7: 2015 +A1: 2018 IEC 60079-15:2017

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

10 If the sign “X” is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.

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

12 The marking of the product shall include the following:

⊕ II 3G Ex eC nC IIC T2 Gc Tamb -40°C ≤ Ta ≤ 205°C

SGS Baseefa Customer Reference No. **2191**

Project File No. **21/0331**

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R S SINCLAIR
TECHNICAL MANAGER
On behalf of SGS Baseefa Limited

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Schedule

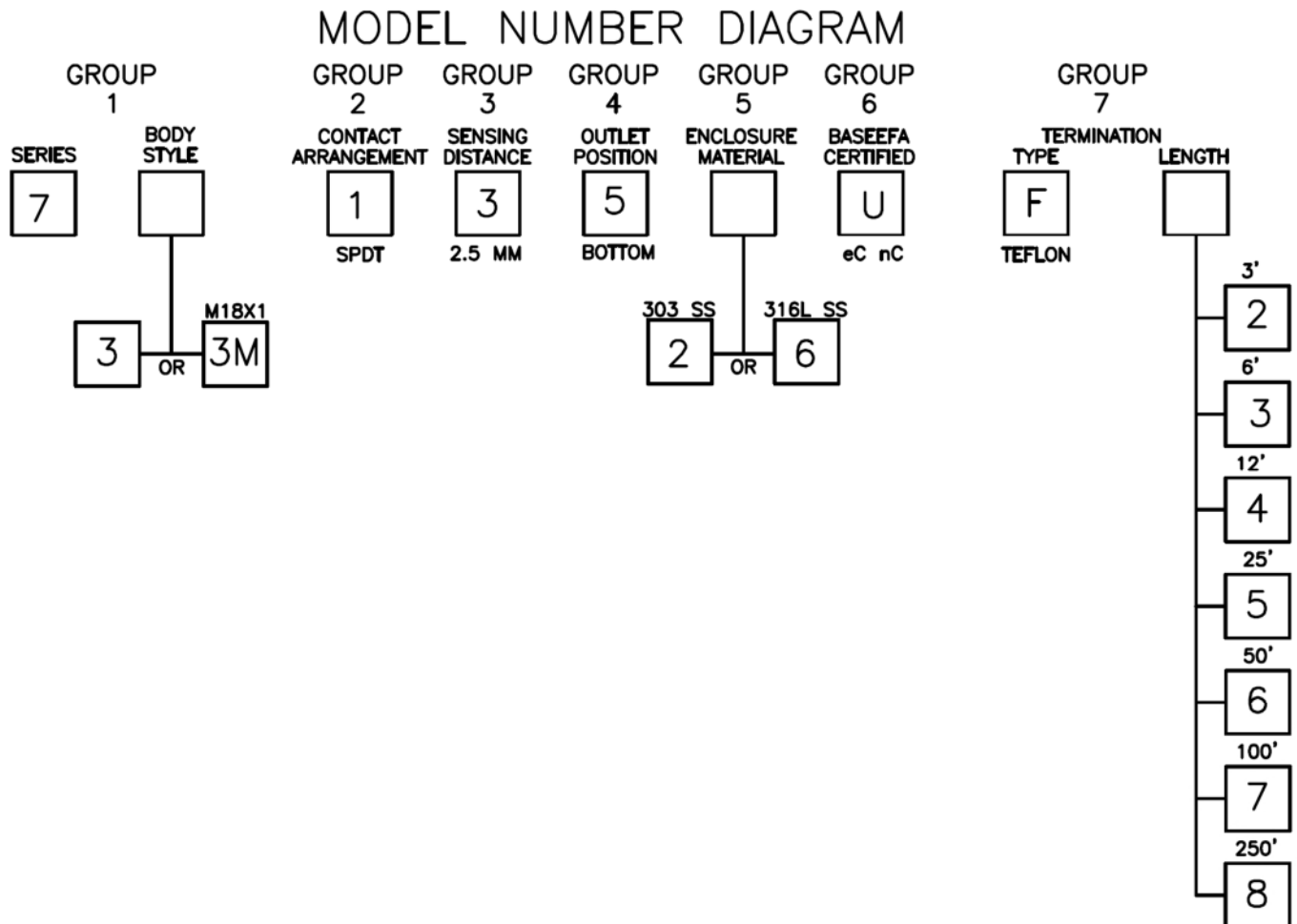
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Certificate Number BAS21UKEX0424X

15 **Description of Product**

The Series 70 GO Switch (Model 73) is a non-contact, magnetically actuated proximity switch employing SPDT dry contacts, hermetically sealed to prevent the intrusion of flammable gases or vapours. The contacts are rated up to 120V. As the heat dissipated by the switch is a function of the switch passing current ($P=I^2R$) rather than consuming current the maximum power ratings can be considered to include any values for current which dissipate less energy across the contacts than the maximum of 4A/120Vac or 3A/24Vdc, based on a maximum resistance of 0.5 Ohms. Therefore, device may dissipate up to 8 Watts at 120V ($P = (4 \text{ Amps})^2 \times 0.5 \text{ Ohms}$). Further, the switch mechanism enclosure is a machined stainless steel, with no weldments, and comprises a 5/8-18 or 18mm male external thread for mounting, and a 1/2NPT or M20 female threaded cable entry on the opposite end of switch.

The switch model number is used to further describe each assembly as follows:



16 **Report Number**

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17 Specific Conditions of Use

1. Installation must not expose the equipment to temperatures outside the range of -40°C to 205°C.
2. The open end of the switch housing must be sealed to form an enclosure complying with the requirements for the type of protection 'eC' in accordance with IEC/EN 60079-0 and IEC/EN 60079-7.
3. The integral supply cables must be mechanically protected and terminated in a suitable terminal or junction facility.
4. An external earth bonding connection may be maintained by either the external mounting thread and/or the internal cable gland/conduit entry thread.

18 Essential Health and Safety Requirements

In addition to the Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9, the following are considered relevant to this product, and conformity is demonstrated in the report:

Clause	Subject
21 (1)	External effects
21 (2)	Aggressive substances, etc.

19 Drawings and Documents

Number	Sheet	Issue	Date	Description
CERT-ES-09220-1	1	AA	10/15/2021	MARKINGS, Artwork UKEX, Ex nC
*CERT-ES-09588-1		AA	06/06/2023	NAMEPLATE 70 Series IECEX/NEC (-40°C to +205°C)
Baseefa18ATEX0064X				Certificate

* The above drawing is common to Baseefa18ATEX0064X, IECEX BAS 18.0044X and BAS21UKEX0424X