

1 **EU - TYPE EXAMINATION CERTIFICATE**

2 **Equipment or Protective System Intended for use in Potentially Explosive Atmospheres
Directive 2014/34/EU**

3 EU - Type Examination Certificate **Baseefa09ATEX0281X – Issue 5**
Number:

3.1 In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

4 Product: **70 Series GO Switch with Connection Head**

5 Manufacturer: **Topworx Incorporated**

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

7 This re-issued certificate extends EC Type Examination Certificate No. **Baseefa09ATEX0281X** to apply to product designed and constructed in accordance with the specification set out in the Schedule of the said certificate but having any variations specified in the Schedule attached to this certificate and the documents therein referred to.

8 SGS Fimko Oy, Notified Body number 0598, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, 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 Annex II to the Directive.

8.1 The original certificate was issued by SGS Baseefa Ltd (UK Notified Body 1180). It, and any supplements previously issued by SGS Baseefa Ltd have been transferred to the supervision of SGS Fimko Oy (EU Notified Body 0598). The original certificate number is retained.

The examination and test results are recorded in confidential Report No. **See Certificate History**

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

EN IEC 60079-0: 2018 EN 60079-1: 2014 EN IEC 60079-7: 2015+A1: 2018 EN 60079-31: 2014

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 EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive 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:

Ex II 2 GD Ex db eb IIC T6 Gb
Ex tb IIIC T85°C Db IP66
(-40°C ≤ Ta ≤ +50°C)

Ex db eb IIC T4 Gb
Ex tb IIIC T130°C Db IP66
(-40°C ≤ Ta ≤ +100°C)

SGS Fimko Oy Customer Reference No. **2191**

Project File No. **21/0331**

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Mikko Välimäki
SGS Fimko Oy

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Schedule

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Certificate Number Baseefa09ATEX0281X – Issue 5

15 Description of Product

The 70 Series Go Switch with Connection Head comprises:

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, ¼” NPT or ½” 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 ½” male NPT to NPT adaptor.

2 – switch options

- ~ 4A at 120VAC
- ~ 3A at 120VAC
- ~ 3A at 24VDC
- ~ 1A at 24VDC

16 Report Number

See Certificate History

17 Specific Conditions of Use

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 manufacturer’s 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 in line with the maximum amps permitted for a terminal equivalent to the conductor size fitted.

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
1.2.7	LVD Requirements
1.2.8	Overloading of equipment
1.4.1	External effects
1.4.2	Aggressive Substances

19 Drawings and Documents

New drawings submitted for this issue of certificate:

None

Current drawings which remain unaffected by this issue:

Number	Sheet	Issue	Date	Description
CERT-ES-01713-1	1	3	11/12/12	Assembly, Switch & Connection Head
CERT-ES-01715-1	1	1	31/08/10	Circuit board - Global 70 layout 3&6 wire version
CERT-ES-01716-1	1	1	31/08/10	Assembly, circuit board
CERT-ES-01722-1	1	4	11/12/12	Certification Label
CERT-ES-01978-1	1	1	31/08/10	Assy, locking lid - global 70 series
CERT-ES-02145-1	1	1	31/08/10	Mod, screw
CERT-ES-02146-1	1	2	10/11/12	Cover, Connection Housing, Aluminium & Stainless Steel
CERT-ES-02307-1	1	2	10/11/12	Connection Housing, Aluminium
CERT-ES-03435-1	1	1	10/11/12	Connection Housing, Stainless Steel

The above drawings are common to Baseefa09ATEX0281X and IECEx BAS 09.0135X

20 Certificate History

Certificate No.	Date	Comments
Baseefa09ATEX0281X	14 September 2010	The release of the prime certificate. The associated test and assessment against the requirements of EN 60079-0: 2009, EN 60079-1: 2007, EN 60079-7: 2007 and IEC 60079-31: 2008 is documented in Test Report No. GB/BAS/ExTR09.0191/00.
Baseefa09ATEX0281X/1	15 September 2011	This supplement introduced four alternative switch rating option. The associated assessment is documented in Test Report GB/BAS/ExTR11.0222/00.
Baseefa09ATEX0281X/2	20 December 2011	This supplement introduced additional temperature classifications and ambient temperature ranges. The associated assessment is documented in Test Report GB/BAS/ExTR11.0308/00.
Baseefa09ATEX0281X/3	27 November 2012	This supplement introduced an alternative stainless-steel connection head and other minor design changes along with a review and revision of the temperature class/Ambient temperature combinations. The associated assessment is documented in Test Report GB/BAS/ExTR12.0301/00.
Baseefa09ATEX0281X/4	29 April 2019	This supplement confirms the current design meets the requirements of EN IEC 60079-0: 2018, EN 60079-1: 2014, EN 60079-7: 2015 and EN 60079-31: 2014, including the revision of the equipment marking in accordance with these standards. The associated assessment is documented in Test Report GB/BAS/ExTR19.0057/00.
Baseefa09ATEX0281X Issue 5	6 September 2023	This issue of the certificate incorporates previously issued primary & supplementary certificates into one certificate and confirms the current design meets the requirements of EN 60079-7: 2015: A1: 2018. The associated assessment is documented in Test Report GB/BAS/ExTR21.0096/00.

For drawings applicable to each issue, see original of that issue.