



[1]

UNITED KINGDOM CONFORMITY ASSESSMENT
UK-TYPE EXAMINATION CERTIFICATE

[2]

**Product or Protective System Intended for use in Potentially Explosive Atmospheres
UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1**

[3] UK-Type Examination Certificate No.: **UL22UKEX2368 Rev. 0**

[4] Product: **MTS Switch, Models MTS-11** and MTSM-11****

[5] Manufacturer: **Topworx Inc.**

[6] Address: **3300 Fern Valley Road, Louisville, KY 40213 USA**

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

[8] UL International (UK) Ltd, Approved Body number 0843, in accordance with Regulation 44 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended by UKSI 2019:696), 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 the confidential report **US/UL/ExTR20.0103/01**.

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

EN IEC 60079-0:2018 EN 60079-11:2012

Except in respect of those requirements listed at section 19 of the schedule to this certificate.

[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 1 G Ex ia IIC T6...T4 Ga**

 **II 2 D Ex ia IIIC T85°C...T135°C Db**

Certification Officer
Andrew Moffat

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the UKEx Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all product to all applicable Standards, specifications, requirements or Regulations. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

Date of issue: 2022-11-24

Approved Body UL International (UK) Ltd Unit 1-3 Horizon Kingsland Business Park Wade Road, Basingstoke RG24 8AH, UK
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[13]

[14]

Schedule UK-TYPE EXAMINATION CERTIFICATE No. UL22UKEX2368 Rev. 0

[15]

Description of Product

The MTS/MTSM Switch is an Intrinsically Safe magnetic switch. The switch is housed in a stainless-steel enclosure and fully encapsulated. The switch is powered by an Intrinsic Safety Barrier in accordance with the entity parameters provided. The difference between the MTS and MTSM relates only to the type of conduit entry. See nomenclature for details.

Nomenclature:

MTS	1	1	S	x	x
I	II	III	IV	V	VI

- I. Body Tube, Conduit Entry
MTS – 5/8-18 Body, ½ NPT Entry
MTSM – M18X1.0 Body, M20X1.5 Entry
- II. Contact Form
1 – 0.25 mA MAX SPDT
- III. Area Classification
1 – Hazardous Locations Global
- IV. Termination
A – Flying Leads
S – Silicone Cable
B – PVC Cable
- V. Designates Regional Approval
Blank
Any letter of number
- VI-IX. Designates internal customer identification
Blank
XXXX – Any 4-digit alphanumeric designation

Temperature range:

The relation between ambient temperature and the assigned temperature class is as follows:

Ambient temperature range	Temperature class
-40 °C to +70 °C	T6, T85°C
-40 °C to +85 °C	T4, T135°C

Electrical data

Intrinsically safe specifications:

Ui = 30V
Ii = 250 mA

Routine tests

N/A

[16]

Test Report No. (associated with this certificate issue)

The test report no. is provided under item no. [8] on page 1 of this UK-Type Examination Certificate.

[17]

Specific conditions of use:

None

[18]

Conditions of certification:

None

[19]

Essential Health and Safety Requirements (Regulations Schedule 1)

In addition to the Essential Health and Safety Requirements covered by the standards listed at item 9, all other requirements are demonstrated in the relevant reports.

Additional information

The MTS/MTSM Switch has in addition passed the tests for Ingress Protection to IP 66/67 in accordance with EN 60529:1991+A1:2000+A2:2013.

The manufacturer shall inform the approved body concerning all modifications to the technical documentation as described in Annex III to UKSI 2016:1107 (as amended by UKSI 2019:696) – Schedule 3A, Part 1.

[13]

[14]

Schedule
UK-TYPE EXAMINATION CERTIFICATE No.
UL22UKEX2368 Rev. 0

[20] Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Control Drawing	ES-08680-1	1	2020-07-24
Overall Assembly	CERT-ES-08510-1	AA	-
Cabling and Ground Ring	ES-08507-1	AA	2020-05-18
Reed Switch Sleeve and Potting	ES-08501-1	AA	2020-05-18
Label Drawing	CERT-ES-09045-1	AA	2022-06-04
Installation Manual	ES-08524-1	AD	-