



# IECEX Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEX UL 20.0091** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-07-31

Applicant: **Topworx Inc.**  
3300 Fern Valley Road  
Louisville, KY 40213  
United States of America

Equipment: **MTS Switch, Models MTS-11\*\* and Model MTSM-11\*\***

Optional accessory:

Type of Protection: **Intrinsic Safety "ia"**

Marking: Ex ia IIC T6...T4 Ga  
Ex ia IIIC T85°C...T135°C Db  
-40°C to +70°C; -40°C to +85°C

Approved for issue on behalf of the IECEx  
Certification Body:

**Katy A. Holdredge**

Position:

**Senior Staff Engineer**

Signature:  
(for printed version)

Date:

2020-07-31

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.
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Certificate issued by:

**UL LLC**  
333 Pfingsten Road  
Northbrook IL 60062-2096  
United States of America





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Manufacturer: **Topworx Inc.**  
3300 Fern Valley Road  
Louisville, KY 40213  
**United States of America**

Additional  
manufacturing  
locations:

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 equipment 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 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-11:2011** Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"  
Edition:6.0

This Certificate **does not** indicate compliance with 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:

[US/UL/ExTR20.0103/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0025/08](#)



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## **EQUIPMENT:**

Equipment and systems covered by this Certificate are as follows:

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.

**Please see Annex for additional information.**

**SPECIFIC CONDITIONS OF USE: NO**

**Annex:**

[Annex to IECEx UL 20.0091 Issue 0.pdf](#)



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## TYPE DESIGNATION

### 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

## PARAMETERS RELATING TO THE SAFETY

Ui = 30V

li = 250 mA



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## MARKING

Marking has to be readable and indelible; it has to include the following indications:




Ind. Cont. Eq. for Haz. Loc.  
Install per Control Drawing ES-08680-1

MODEL #:

SERIAL #:

## TOPWORX

3300 Fern Valley Road; Louisville, KY 42701

 II 1 G Ex ia IIC T6 / T4 Ga  
II 2 D Ex ia IIIC T85°C / T135°C Db

Intrinsically Safe - Sécurité intrinsèque

UL 20 ATEX 2419 / IECEx UL 20.0091

Class I, Zone 0, Div 1 Grps A - D

Class II, Zone 21, Div 1 Grps E - G, Class III

-40°C ≤ Ta ≤ 70°C / 85°C

IP66/67;