



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

Certificate No.: **IECEX UL 20.0082** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2020-08-18

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

Equipment: **Proximity Switches, MTS or MTSM**

Optional accessory:

Type of Protection: **Flameproof "db", Dust Ignition Protection by Enclosure "tb"**

Marking: Ex db IIC T6...T4 Gb
Ex db IIC T5...T4 Gb
Ex tb IIIC T85°C...T135°C Db
Ex tb IIIC T100°C...T135°C Db
Model MTS/MTSM followed by 2: T6, T85°C and Model MTS/MTSM followed by 3: T5, T100°C = -40°C to +70 °C
All models: T4, T135°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:

2020-08-18

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.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



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 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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/ExTR20.0092/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

These devices are enclosed proximity switches with a ferrous actuator approximately equal to the area of the end. These devices are provided with integral leads and are provided with a threaded conduit opening. Devices are externally threaded for mounting.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: NO

Annex:

[Annex to IECEx UL 20.0082 Issue 0.pdf](#)



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TYPE DESIGNATION

Nomenclature:

MTS 2 2 A x x
I II III IV V VI

I – Designates the Model

- MTS – 5/8” – 18 Mounting thread, 1/2” NPT conduit entry
- MTSM – M18 – Mounting thread, M20 conduit entry

II – Designates the contact form

- 2 – 1A MAX, SPDT (Form C) Hermetically Sealed
- 3 – 3A MAX, SPDT (Form C) Hermetically Sealed

III – Designates the area classification

- 1 – Hazardous locations

IV – Designates the lead wire options

- A – Flying Leads
- B – PVC Cable
- S – Silicone Cable

V - Designates Regional Approval

- Blank
- Any letter or number

VI – Designates internal customer identification

- Blank
- XXXX – Any 4-digit alphanumeric designation



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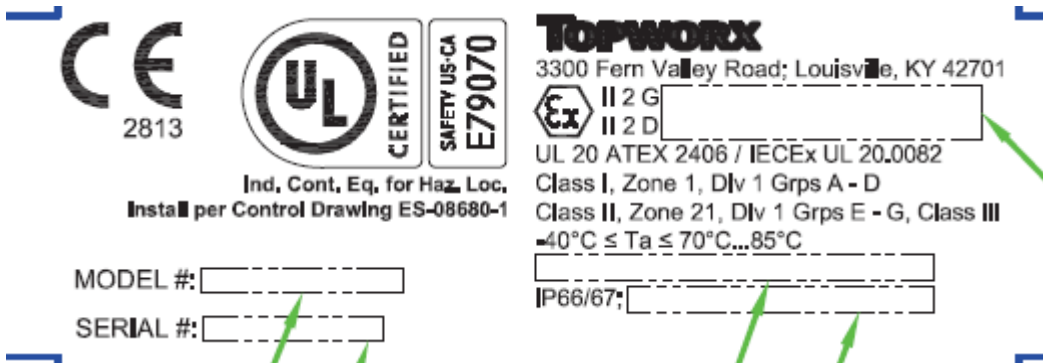
PARAMETERS RELATING TO THE SAFETY

For Model MTS/MTSM followed by 3: 120 Vac, 3 A
 240 Vac, 1.5 A
 24 Vdc, 2 A

For model MTS/MTSM followed by 2: 120 Vac, 0.2 A
 24 Vdc, 1 A

MARKING

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



With

Ex db IIC T6...T4 Gb

Ex tb IIIC T85°C...T135°C Db

Ex db IIC T5...T4 Gb

Ex tb IIIC T100°C...T135°C Db