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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.: **UL22UKEX2367 Rev. 0**

[4] Product: **MTS/MTSM Proximity Switches**

[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/ExTR20.0092/00.

[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 60079-31:2014

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 2 G **Ex db IIC T6...T4 Gb**

 II 2 G **Ex db IIC T5...T4 Gb**

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

 II 2 D **Ex tb IIIC 100°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
Phone : +44 (0)1256 312100



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Schedule

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[15] Description of Product
 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.

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

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	Model MTS/MTSM followed by 2: T6, T85°C Model MTS/MTSM followed by 3: T5, T100°C
-40°C to +85 °C	All models: T4, T135°C

Electrical data

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

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 Model MTS and MTSM have in addition passed the tests for Ingress Protection to IP 66, IP67 in accordance with EN60529:1991+A1:2000+A2:2013.



The trademark TOPWORX will be used as the company identifier on the marking label.

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.

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Schedule
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Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
Assembly	CERT-ES-08510-1	AA	-
Enclosure	S-S70-0358	31	2017-02-23
Installation Manual	ES-08524-1	AD	-
Nameplate	CERT-ES-09044-1	AA	2022-06-04