CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312315000488

Applicant	Topworx Incorporated
Address	3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America
Manufacturer	Topworx Incorporated
Address	3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America
Production Factory	Topworx Incorporated
Production Address	3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America
Product	GO Switch
Model/Type	*1-****F-********, *1-****G-********, *1-****H-********
Ex marking	Ex ia IIC T6/T4/T3 Ga, Ex ia IIIC T85℃/T135℃/T200℃ Da
Reference Standards	GB/T3836.1-2021, GB/T3836.4-2021
Certification mode	Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product and* CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product.*

See Annex for the detailed product information (7 pages)

Initial issue date: 2021-10-25

Issued date: 2023-03-20 Valid to: 2026-10-24

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:

CNEX C C C

南阳防爆电气研究所有限公司

Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.

CNAS 中国认可 产品 PRODUCT CNAS C208-P

http://www.ccc-cnex.com ccc.china-ex.com
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CN 0001624

CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312315000488

Product information:

1. This certificate covers the following models:

- *1-****F-********, *1-****G-********, *1-****H-********

'F' or 'G' Model Range:

*1	-	*	*	*	*	F/G	-	*	*	******
(1)		(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)

(1) Model:
11=Size 1½" Square × 4 9/16" Length(add ½" for bottom outlet)
21=Size 1½" Square × 3 13/16" Length (add ½" for bottom outlet)

(2) Contact Form:
1 = Single Pole, Double Throw
3 = Single Pole, Double Throw Latching
5 = Double Make, Double Break, 2 Circuit Form Z
6 = Double Make, Double Break, 2 Circuit Form Z Latching

(3) Sensing Range:
1 = Standard – 3/8"
2 = Extended – 9/16"
7 = Precision – ¼"

(4) Outlet Position:
1 = Behind Sensing Area
2 = Left of Sensing Area
3 = Right of Sensing Area
4 = Same Side as Sensing Area
5 = Bottom Outlet

(5) Enclosure Material
1 = Stainless Steel
2 = 316 Stainless Steel

Issued date: 2023-03-20

Director:

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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

(Annex)

No.: 2021312315000488

(6) Certification Code
F = Zone 0, Temp. Class. T6
G = Zone 0, Temp. Class T4

(7) Wiring Options
00 = Terminal Block with ½"-14 NPT Conduit Entry
00M = Terminal Block with 20mm Conduit Entry
A2 or A2M= 3' PVC Covered Leads
A3 or A3M= 6' PVC Covered Leads
A4 or A4M= 12' PVC Covered Leads
A5 or A5M = 25' PVC Covered Leads
A6 or A6M = 50' PVC Covered Leads
A7 or A7M = 100' PVC Covered Leads
A8 or A8M = 250' PVC Covered Leads
B2 or B2M= 3' Rubber Covered Cable
B3 or B3M= 6' Rubber Covered Cable
B4 or B4M= 12' Rubber Covered Cable
B5 or B5M = 25' Rubber Covered Cable
B6 or B6M = 50' Rubber Covered Cable
B7 or B7M = 100' Rubber Covered Cable
B8 or B8M = 250' Rubber Covered Cable
F2 or F2M= 3' Teflon Covered Leads
F3 or F3M= 6' Teflon Covered Leads
F4 or F4M= 12' Teflon Covered Leads
F5 or F5M = 25' Teflon Covered Leads
F6 or F6M = 50' Teflon Covered Leads
F7 or F7M = 100' Teflon Covered Leads
F8 or F8M = 250' Teflon Covered Leads
S2 or S2M= 3' Silicone Covered Leads
S3 or S3M= 6' Silicone Covered Leads
S4 or S4M= 12' Silicone Covered Leads
S5 or S5M = 25' Silicone Covered Leads
S6 or S6M = 50' Silicone Covered Leads
S7 or S7M = 100' Silicone Covered Leads

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(Annex)

No.: 2021312315000488

S8 or S8M = 250' Silicone Covered Leads
DBA = 3 Pin Micro-Change Male Connector
DBD = 4 Pin Micro-Change Male Connector
DBG = 5 Pin Micro-Change Male Connector
DCA = 3 Pin Mini-Change Male Connector
DCD = 4 Pin Mini-Change Male Connector
DCG = 5 Pin Mini-Change Male Connector

(8) Regional Cert
Blank: UL (North America), IECEx, ATEX
B: InMetro (Brazil)
K: KCs (Korea)
N: CCCEx (China)
P: PESO (India)
R: EAC (Eurasian Economic Union)
T: ITRI (China Taiwan)

(9) Custom Build Indents
6 digits (without relevance for explosion protection.)

The product is powered by Ex ia IIC intrinsically safe power supply that meets the GB/T3836.4 standard.

Input Parameters:

Switch Variants with Wiring Options 00, DBA, DBD, DBG, DCA, DCD & DCG:

Ui=30V, Ci=0, Ii=0.25A, Li=0

Switch Variants with Wiring Options A*, B*, S* F*:

Ui=30V, Ci=33nF, Ii=0.25A, Li=200μH

'H' Model Range:

*1	-	*	*	*	*	H	-	*	*	******

Issued date: 2023-03-20

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(1)		(2)	(3)	(4)	(5)	(6)		(7)	(8)	(9)

(1) Model:
11=Size 1½" Square x 4 9/16" Length(add ½" for bottom outlet)
21=Size 1½" Square x 3 13/16" Length (add ½" for bottom outlet)

(2) Contact Form:
1 = Single Pole, Double Throw
3 = Single Pole, Double Throw Latching
5 = Double Make, Double Break, 2 Circuit Form Z
6 = Double Make, Double Break, 2 Circuit Form Z Latching

(3) Sensing Range:
1 = Standard – 3/8"
2 = Extended – 9/16"
7 = Precision – ¼"

(4) Outlet Position:
1 = Behind Sensing Area
2 = Left of Sensing Area
3 = Right of Sensing Area
4 = Same Side as Sensing Area
5 = Bottom Outlet

(5) Enclosure Material
1 = Stainless Steel
2 = 316 Stainless Steel

(6) H = Zone 0, Temp. Class. T3

(7) Wiring Options
F2 or F2M = 3' Teflon Covered Leads
F3 or F3M= 6' Teflon Covered Leads
F4 or F4M= 12' Teflon Covered Leads
F5 or F5M = 25' Teflon Covered Leads
F6 or F6M = 50' Teflon Covered Leads

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No.: 2021312315000488

F7 or F7M = 100' Teflon Covered Leads
F8 or F8M = 250' Teflon Covered Leads
S2 or S2M= 3' Silicone Covered Leads
S3 or S3M= 6' Silicone Covered Leads
S4 or S4M= 12' Silicone Covered Leads
S5 or S5M = 25' Silicone Covered Leads
S6 or S6M = 50' Silicone Covered Leads
S7 or S7M = 100' Silicone Covered Leads
S8 or S8M = 250' Silicone Covered Leads

(8) Regional Cert
Blank: UL (North America), IECEx, ATEX
B: InMetro (Brazil)
K: KCs (Korea)
N: CCCEx (China)
P: PESO (India)
R: EAC (Eurasian Economic Union)
T: ITRI (China Taiwan)

(9) Custom Build Indents

6 digits (without relevance for explosion protection.)

The product is powered by Ex ia IIC intrinsically safe power supply that meets the GB/T3836.4 standard.

Input Parameters: Ui=30V, Ci=33nF, Ii=0.25A, Li=200μH

Model Temperature Classification:

10/20 Series models with a 'F' as the seventh character in the model number	Ex ia IIC T6 Ga(-40°C ≤ Ta ≤ +50°C) Ex ia IIIC T85℃ Da(-40°C ≤ Ta ≤ +50°C)
10/20 Series models with a 'G' as the seventh character in the model number	Ex ia IIC T4 Ga(-40°C ≤ Ta ≤ +100°C) Ex ia IIIC T135℃ Da(-40°C ≤ Ta ≤ +100°C)

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10/20 Series models with a 'H' as the seventh character in the model number	Ex ia IIC T3 Ga(-40°C ≤ Ta ≤ +150°C) Ex ia IIIC T200℃ Da(-40°C ≤ Ta ≤ +150°C)

Ex marking: Ex ia IIC T6/T4/T3 Ga, Ex ia IIIC T85℃/T135℃/T200℃ Da

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- Ingress protection: IP54.
- Both contacts of the Double Throw and the separate poles of the Double Pole switch, within one switch must form part of the same intrinsically safe circuit.
- The proximity switches do not require a connection to earth for safety purposes, but an earth connection is provided which is directly connected to the metallic enclosure. Normally an intrinsically safe circuit may be earthed at one point only. If the earth connection is used, the implication of this must be fully considered in any installation, e.g. by use of a galvanically isolated interface.
- When using this product, it must be powered by an Ex ia IIC intrinsically safe power supply that meets the GB/T3836.4 standard and has obtained CCC certification.
- The flying leads must be terminated in a manner suitable for the zone of installation.
- The terminal block variants of the equipment are fitted with a non-metallic cover that constitutes a potential electrostatic hazard and must only be cleaned with a damp cloth.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2106C213, CQST2106C213/01
- Factory inspection report: CN2021Q010370

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4. Certificate change information:

- 1st change on March 20, 2023: Updated the standards for certification.

Issued date: 2023-03-20

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