



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312304001278

**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** Switchbox  
**Model/Type** TX\*-\*C\*\*\*M\*\*\*\*\*  
**Ex marking** Ex db IIC T6/T5/T4 Gb, Ex tb IIIC T85°C/T100°C/T135°C Db  
**Reference Standards** GB/T 3836.1-2021, GB/T 3836.2-2021, GB/T3836.31-2021

**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 (6 pages).

Initial issue date: 2022-02-16

Issued date: 2023-03-24

Valid to: 2027-02-15

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:



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



<http://www.ccc-cnex.com>  
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CN 0001648





# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

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**Product information:**

1. This certificate covers the following models:

- TX\*-C\*\*\*M\*\*\*\*\*

Nomenclature:

TX	*	-	*	C	*	*	*	M	*	*	*	*	*	*
1)	2)		3)	4)	5)	6)	7)	8)	9)	10)	11)	12)	13)	14)

1) Enclosure

2) Enclosure Material:

P=Aluminum

S=316SS

3) Bus/Sensor

A0 = AS-i (no switches)

A4 = AS-I w/(2) P+F NBB2-V3-E2

A5 = AS-I w/(2) P+F NBB3-V3-Z4

AM = AS-I w/(2) MECH SWITCH SPDT

AS = AS-I w/(2) SPDT GO Switches

D0 = Devicenet (no switches)

D2, D4 = 36SD SERIES GO SWITCH 1 AMP

DM = Devicenet w/(2) MECH SWITCH SPDT

DN = Devicenet w/(2) SPDT GO Switches

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E1, E2, E3, E4 = P+F NJ2-V3-N  
EX = (2) P+F NJ2-V3-N w/4-20mA Transmitter  
K1, K2, K3, K4 = MECH SWITCH SPDT w/GOLD CONTACTS  
KX = (2) MECH SWITCH SPDT w/4-20mA Transmitter  
L1, L2 = GO SWITCH SPDT  
M1, M2, M3, M4 = MECH SWITCH SPDT  
MX = (2) MECH SWITCH SPDT w/4-20mA Transmitter  
N1, N2, N3, N4 = ANY NAMUR SWITCH  
NX = (2) ANY NAMUR SWITCH w/4-20mA Transmitter  
P0 = Profibus (no switches)  
P1, P2, P3, P4 = 3 AMP REED SWITCH  
PM = PROFIBUS w/(2) MECH SWITCH SPDT  
PB = PROFIBUS w/(2) SPDT GO Switches  
R1, R2, R3, R4 = 1 AMP REED SWITCH  
S2, S4 = 36SD SERIES GO SWITCH 3 AMP  
T2 = MECH SWITCH DPDT  
TX = MECH SWITCH DPDT w/4-20mA Transmitter  
00 = NO SWITCH  
0X = 4-20mA Transmitter  
21, 22 = HIGHLY TS18-08P-1  
41, 42, 43, 44 = P+F NBB2-V3-E2

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51, 52, 53, 54 = P+F NBB3-V3-Z4

4) Area Class

C = Ex db IIC T6/T5/T4 Gb, Ex tb IIIC T85°C/T100°C/T135°C Db

5) Visual Display: ANY NUMBER OR LETTER

6) Shaft: ANY NUMBER OR LETTER

7) Conduit Entries: ANY NUMBER OR LETTER

8) O-Rings:

M = SILICONE

9) Pilot

0 OR BLANK = None

10) Spool:

0 OR BLANK = None

11) Valve Cv:

0 OR BLANK = None

12) Override:

0 OR BLANK = None

13) Regional Certs:

BLANK = UL (North America), IECEX, ATEX

B = InMetro (Brazil)

K = KCs (Korea)

N = CCCEX (China)

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P = PESO (India)

R = EAC (Eurasian Economic Union)

T = ITRI (China Taiwan)

14) Custom Build Indents

6 digits (without relevance for explosion protection)

The cable entry points may have the threadform 1/2" x 14 NPT.

The Type TXP Limit Switch Enclosure may contain up to four limit switches and a 1 KΩ potentiometer in varying combinations.

The Type TXP and TXS may be fitted with a venting/breathing device.

The Type TXP and Type TXS may be fitted with 'Go' Switches.

The Types TXP and TXS may be manufactured from stainless steel to become Types TXP-S/S and TXS-S/S respectively.

The Type TXP and Type TXP-S/S may have their switches replaced by two Pepperl & Fuchs Type NJ2-SN 8 V dc 3 mA proximity sensors to become Types TXP-1 and TXP-1-S/S respectively.

The Types TXP, TXP-S/S, TXS and TXS-S/S may be fitted with the following Bus Network Cards introducing the following suffix:

Suffix	Card Type
A	ASI
B	Profibus DP
C	Profibus PA
D	Foundation Fieldbus

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E	Position Transmitter
F	Devicenet
G	Modbus

Ingress Protection: IP66/IP67

Ex marking: Ex db IIC T6/T5/T4 Gb, Ex tb IIIC T85°C/T100°C/T135°C Db

The corresponding relationship between ambient temperature and temperature group is shown in the following table:

--	Ambient temperature	Temperature class
Gas	-65°C to +40°C	T6
	-65°C to +60°C	T5
	-65°C to +80°C	T4
Dust	-50°C to +40°C	T85°C
	-50°C to +60°C	T100°C
	-50°C to +80°C	T135°C

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

2. Specific conditions of safety use:

- The slotted hexagonal head cover screws are not of standard form; they shall only be replaced with identical screws sourced from the equipment manufacturer.
- The hexagonal head cover screws are to be replaced only with stainless steel A2-70 or A4-80 screws to GB/T3098.6.
- Cover fasteners are to be tightened to a torque value of 10.85 Nm (8ft/lbs) minimum.
- Before application, CCC certified Ex db IIC Gb, Ex tb IIIC Db cable gland(IP66/IP67) and/or stopping plug(IP66/IP67) must be applied, suitable for the conditions of use and correctly installed.

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- See instruction for other information.
- 3. Certificate related report(s):
  - Type test report: CQST2112C100, CQST2112C100/01
  - Factory inspection report: CN2022Q010019
- 4. Certificate change information:
  - 1st change on March 24, 2023: Updated the standards for certification.

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