



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312304001292

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	Emerson AFCP Poland Sp. z o.o.
Production Address	Kurczaki 132, Lodz 93-331, Poland
Product	Switchbox
Model/Type	TX*_*1***M*****
Ex marking	Ex db IIB 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 (5 pages).

Initial issue date: 2022-02-25

Issued date: 2023-03-25

Valid to: 2027-02-24

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:



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



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Product information:

1. This certificate covers the following models:

- TX*_*1***M*****

Nomenclature:

TX	*	-	*	1	*	*	*	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
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)

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

4) Area Class

1 = Ex db IIB 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 = No Pilot

1=24VDC FAIL Open/Closed

4=220VAC FAIL Open/Closed

7=110VAC FAIL Open/Closed

10) Spool: ANY NUMBER OR LETTER OR BLANK

11) Valve Cv: ANY NUMBER OR LETTER OR BLANK

12) Override: ANY NUMBER OR LETTER OR BLANK

13) Regional Certs:

0 or BLANK = UL (North America), IECEx, ATEX

B = InMetro (Brazil)

K = KCs (Korea)

N = CCCEX (China)

P = PESO (India)

R = EAC (Eurasian Economic Union)

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T = ITRI (China Taiwan)
14) Custom Build Indents
6 digits (without relevance for explosion protection)

The cable entry points may have the thread form ½" 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
E	Position Transmitter
F	Devicenet
G	Modbus

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Ingress Protection: IP66/IP67

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

The corresponding relationship between ambient temperature and temperature class 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/T 3098.6.

- Cover fasteners are to be tightened to a torque value of 10.85 Nm (8ft/lbs) minimum.

- Before application, CCC certified Ex db IIB Gb or 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.

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2112C099, CQST2112C099/01

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- Factory inspection report: CN2021Q010526
- 4. Certificate change information:
 - 1st change on March 25, 2023: Updated the standards for certification.

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