



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312304001317

<b>Applicant</b>	Topworx Incorporated
<b>Address</b>	3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America
<b>Manufacturer</b>	Topworx Incorporated
<b>Address</b>	3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America
<b>Production Factory</b>	Topworx Incorporated
<b>Production Address</b>	3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America
<b>Product</b>	Switchbox
<b>Model/Type</b>	DX*-S*2***S*****
<b>Ex marking</b>	Ex ec nC IIC T4 Gc, Ex tc IIIC T135°C Dc
<b>Reference Standards</b>	GB/T 3836.1-2021, GB/T 3836.3-2021, GB/T 3836.8-2021, GB/T 3836.31-2021

**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 (3 pages).

Initial issue date: 2022-04-29

Issued date: 2023-03-22

Valid to: 2027-04-28

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>  
[ccc.china-ex.com](http://ccc.china-ex.com)

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CN 0001642



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

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**Product information:**

1. This certificate covers the following models:

- DX\*-S\*2\*\*\*S\*\*\*\*\*

**Nomenclature:**

DX	*	-	S*	2	*	*	*	S	*	*	*	*	*	*
1)	2)		3)	4)	5)	6)	7)	8)	9)	10)	11)	12)	13)	14)

- 1) Basic Series Designation  
DX=Cast Enclosure
- 2) Enclosure Material  
S = Stainless Steel  
P = Aluminum
- 3) Sensor/Switch Supplement  
SH or SS = D2 HART v7 ESD, Model ES-06762-1, 28 V dc max, 100 mA, 0.7 W input; switch outputs when fitted 24 V dc, 250 mA per switch
- 4) Area Classification  
2 = Ex ec nC IIC T4 Gc, Ex tc IIIC T135°C Dc
- 5) Visual Display  
Any letter or number
- 6) Shaft  
S = 1/4" DD, 316L SS  
N = NAMUR, 316L SS
- 7) Conduit Entries  
Any letter or number
- 8) O-ring Option  
S = Silicone

Issued on: 2023-03-22

Director:



**Nanyang Explosion Protected Electrical  
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- 9) Pilot Type/Action  
0 or Blank = No Pilot Devices  
1 = One 24 V dc 1 W coil pilot for fail open/closed  
D = Two 24 V dc 1 W coil pilots wired in parallel
- 10) Spool Valve Material  
0 or Blank = No spool valve  
A = Aluminum Black Anodized  
6 = 316 SS
- 11) Valve CV  
0 or Blank = No valve  
X = Any number or letter
- 12) Manual Override  
0 or Blank = No PST Button  
T = With PST (Partial Stroke Button)
- 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)  
T=ITRI (China Taiwan)
- 14) Custom Build Indents  
6 digits (without relevance for explosion protection.)

## PARAMETERS RELATING TO THE SAFETY:

Issued on: 2023-03-22

Director:

穆大玉



Nanyang Explosion Protected Electrical  
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Input to HART module: 24 Vdc max, 20 mA max

Input from External Pilots: 28W max

Input to Switches: 24 Vdc max, 250 mA max

Ingress Protection: IP66/IP67

Ex marking: Ex ec nC IIC T4 Gc, Ex tc IIIC T135°C Dc

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

2. Specific conditions of safety use:

- Ambient temperature range: -40°C~+80°C.

- 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 stainless steel 304, grade A2-70 or A4-80 screws to GB/T3098.6. The minimum yield stress is 210 MPa.

- Before application, CCC certified cable gland that suitable for the conditions of use and/or stopping plug shall be applied, and correctly installed.

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2112C098, CQST2112C098/01

- Factory inspection report: CN2022Q010019

4. Certificate change information:

- 1st change on March 22, 2023: Updated the standards for certification.

Issued on: 2023-03-22

Director:



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Apparatus Research Institute Co.,Ltd.

