



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312304001316

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 DX*-S*1***S*****
Ex marking Ex db IIB+H₂ T6/T4 Gb, Ex tb IIIC T85°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 (4 pages).

Initial issue date: 2022-03-25

Issued date: 2023-03-22

Valid to: 2027-03-24

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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CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

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Product information:

1. This certificate covers the following models:

- DX*-S*1***S*****

Nomenclature:

DX	*	-	S*	1	*	*	*	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
1= Ex db IIB+H₂ T6/T4 Gb, Ex tb IIIC T85°C/ T135°C Db

5) Visual Display
X=Any letter or number

6) Shaft
S=1/4" DD, 316L SS
N=NAMUR, 316L SS

7) Conduit Entries
X=Any letter or number

8) O-ring Option
S=Silicone

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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:
Input to HART module: 24 Vdc max, 20 mA max
Input from External Pilots: 30W max

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Input to Switches: 24 Vdc max, 250 mA max

Ingress Protection: IP66/IP67

Ex marking: Ex db IIB+H₂ T6/T4 Gb, Ex tb IIIC T85°C/ T135°C Db

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

--	Ambient temperature	Temperature class
Gas	-40°C~+60°C	T6
	-40°C~+80°C	T4
Dust	-40°C~+60°C	T85°C
	-40°C~+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:

- Ambient temperature range: -40°C~+60/+80°C.

- See Drawing ES-08436-1 for information on the flameproof joints.

- 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 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):

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- Type test report: CQST2112C097, CQST2112C097/01
 - Factory inspection report: CN2022Q010019
4. Certificate change information:
- 1st change on March 22, 2023: Updated the standards for certification.

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