



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312304001239

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 Switch boxes
Model/Type DX*-S*0***S*****
Ex marking Ex ia IIC T4 Ga, Ex ia IIIC T135°C Db
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 (4 pages)

Initial issue date: 2021-12-23

Issued date: 2023-03-20

Valid to: 2026-12-22

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:

- DX*-S*0***S*****

DX	*	-	S*	0	*	*	*	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
P – Aluminum
S – Stainless Steel
- 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
0 – Intrinsic Safety
- 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
- 9) Pilot Type/Action

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- 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
 - Blank - No spool valve
 - A - Aluminum Black Anodized
 - 6 - 316 SS
- 11) Valve CV
 - Blank - No valve
 - X - Any number or letter
- 12) Manual Override
 - Blank - No PST Button
 - T - With PST (Partial Stroke Button)
- 13) REGIONAL CERTS
 - 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:

Table 1: INPUTS - Entity Parameters					
	Ui	li	Ci	Li	Pi
HART+/HART-	28V	100mA	19nF	14uH	0.7W

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P1IN+/P1IN-(Pilot 1)	28V	100mA	0	0	0.7W
P2IN+/P2IN-(Pilot 2)	28V	100mA	0	0	0.7W
C1/NO1 or (C1/NC1)*	24V	250mA	0	0	Neg
C2/NO2 or (C2/NC2)*	24V	250mA	0	0	Neg
* Internal USER SW1/SW2 are volt-free contacts. Power is negligible.					

	Uo	Io	Co	Lo	Po
PSNS+/PSNS- (Pressure Transmitter 4-20mA)	28V	100mA	0.082uF	200uH	0.7W
AUX2+/AUX2- or AUX+/AUX-(AUX Sw 2)	5.88V	52mA	26.347uF	1uH	364mW
AUX1+/AUX1- or +5VO/10V (AUX Sw 1)	7.14V	52mA	9.87uF	1uH	364mW
P1IN+, 10V+, 10V- (SOV Position Monitor)	5.88V	52mA	26.347uF	1uH	364mW
PST+/PST- (Partial Stroke Button)	5.88V	52mA	26.347uF	1uH	364mW
P1out+/P1out-	28V	100mA	0.082uF	200uH	0.7W
P2out+/P2out-	28V	100mA	0.082uF	200uH	0.7W
ALM/ALM(Alarm)	28V	100mA	0.082uF	200uH	0.7W

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- Producers should organize production in accordance with the technical documents approved by the certification body.
- 2. Specific conditions of safety use:
 - Ingress protection: IP66/67.
 - Ambient temperature: -40°C~+80°C.
 - All unused entries must be filled with a suitably CCC certified Ex component blanking plug.
 - The plastic parts of the enclosure have the potential to produce electrostatic discharge. Clean only with damp cloth.
 - See instruction for other information.
- 3. Certificate related report(s):
 - Type test report: CQST2109C050, CQST2109C050/01
 - Factory inspection report: CN2021Q010370
- 4. Certificate change information:
 - 1st change on March 20, 2023: Updated the standards for certification.

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