



国家防爆

# 防爆合格证

## Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY

**Manufacturer** Topworx Incorporated  
3300 Fern Valley Road, Louisville, Kentucky, 40213, United States of America

**Product** Switchbox

**Type** DX\*-S\*C\*\*\*S\*\*\*\*\*

**Marking** Ex d IIC T6/T4 Gb, Ex tD A21 IP66/67 T85°C/135°C

**Standard(s)** --

**Drawing No.** CERT-ES-06761-1

The drawings, technical documents and the samples are verified and certified according to standard(s) for safety as below:

- GB 3836.1-2010 Explosive atmospheres - Part 1: Equipment - General requirements
- GB 3836.2-2010 Explosive atmospheres - Part 2: Equipment protection by flameproof enclosures "d"
- GB12476.1-2013 Electrical apparatus for use in the presence of combustible dust - Part 1:General requirements
- GB12476.5-2013 Electrical apparatus for use in the presence of combustible dust - Part 5: Protection by enclosures "tD"

**Note:**

See Annex (3 pages in total).

**Director**

**Date:**

2022-03-07

**Valid until:**

2027-03-06



南阳防爆电气研究所  
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Note: This certificate is only valid for products which are identical with the sample(s) tested and verified. Holder of this certificate has the responsibility to ensure the products comply with relevant standards.

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Page 1 of 3

1. This product has been IECEx certified, certificate No. IECEx UL 19.0090X, issue 4, dated 2021-08-31.

2. Type designation:

DX	*	-	S*	C	*	*	*	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

C = Ex d IIC T6/T4 Gb, Ex tD A21 IP66/67 T85°C/135°C

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

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

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Page 2 of 3

## 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.)

## 3. PARAMETERS RELATING TO THE SAFETY:

Input to HART module: 24 Vdc max, 20 mA max

Input from External Pilots: 30W max

Input to Switches: 24 Vdc max, 250 mA max

## 4. Ex marking: Ex d IIC T6/T4 Gb, Ex tD A21 IP66/67 T85°C/135°C

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

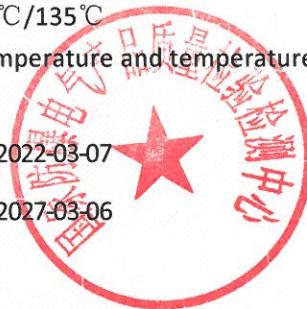
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Page 3 of 3

	ambient temperature	Temperature class
Gas	-40℃~+60℃	T6
	-40℃~+80℃	T4
Dust	-40℃~+60℃	T85℃
	-40℃~+80℃	T135℃

## 6. Specific conditions of safety use:

- 1) Ambient temperature range: -40℃~+60/+80℃.
- 2) See Drawing ES-08436-1 for information on the flameproof joints.
- 3) The slotted hexagonal head cover screws are not of standard form; they shall only be replaced with identical screws sourced from the equipment manufacturer.
- 4) The hexagonal head cover screws are stainless steel 304, grade A2-70 or A4-80 screws to ISO 35061. The minimum yield stress is 31000 psi.
- 5) Before application, certified Ex d IIC Gb, Ex tD A21 IP66/67 cable gland and/or stopping plug must be applied, suitable for the conditions of use and correctly installed.

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