



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*1****S*****

Marking Ex d IIB+H₂ 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
NANYANG EXPLOSION PROTECTED ELECTRICAL APPARATUS RESEARCH INSTITUTE
国家防爆电气产品质量检验检测中心
CHINA NATIONAL QUALITY SURVEY AND TEST CENTER FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS
Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China
Tel:0377-63298664 Fax:0377-63208175 Web:www.china-ex.com

注:本证书仅对与认可文件和样品一致的产品有效。

登录网站或关注公众号查询真伪 4028 5814 1111 2170

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.



国家防爆

防爆合格证 (附页)

Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY

Page 1 of 3

- his product has been IECEx certified, certificate No. IECEx UL 19.0090X, issue 4, dated 2021-08-31.
- Type designation:

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

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

1 = Ex d IIB+H₂ 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

Director

Date:

2022-03-07

Valid until:

2027-03-06



南阳防爆电气研究所
NANYANG EXPLOSION PROTECTED ELECTRICAL APPARATUS RESEARCH INSTITUTE
国家防爆电气产品质量检验检测中心
CHINA NATIONAL QUALITY SURVEY AND TEST CENTER FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS
Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R. China
Tel:0377-63238664 Fax:0377-63208175 Web:www.china-ex.com

注: 本证书仅对与认可文件和样品一致的产品有效。

登录网站或关注公众号查询真伪

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.



国家防爆

防爆合格证 (附页)

Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY

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 IIB+H₂ 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:

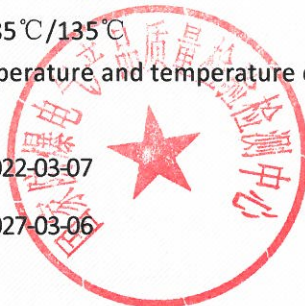
Director

Date:

2022-03-07

Valid until:

2027-03-06



南阳防爆电气研究所
NANYANG EXPLOSION PROTECTED ELECTRICAL APPARATUS RESEARCH INSTITUTE
国家防爆电气产品质量检验检测中心
CHINA NATIONAL QUALITY SURVEY AND TEST CENTER FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS
Address: No.20 North Zhongjing Rd, Nanyang, Henan(473008), P.R.China
Tel:0377-63298664 Fax:0377-63208175 Web:www.china-ex.com

注: 本证书仅对与认可文件和样品一致的产品有效。

登录网站或关注公众号查询真伪

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.



防爆合格证 (附页)

Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY

	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

6. Specific conditions of safety use:

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

Director

Date:

2022-03-07

Valid until:

2027-03-06




 南阳防爆电气研究所
 NANYANG EXPLOSION PROTECTED ELECTRICAL APPARATUS RESEARCH INSTITUTE
 国家防爆电气产品质量检验检测中心
 CHINA NATIONAL QUALITY SURVEY AND TEST CENTER FOR EXPLOSION PROTECTED ELECTRICAL PRODUCTS
 Address: No.20 North Zhongjing Rd, Nanyang, Henan 473008, P.R.China
 Tel: 0377 63258564 Fax: 0377 63208175 Web: www.china-ex.com

注: 本证书仅对与认可文件和样品一致的产品有效。

登录网站或关注公众号查询真伪

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.