



国家防爆

Certificate number: CNEx22.0555X

# 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** D2-FF Valvetop Switchbox

**Type** DX\* F\*0 \*\*\*\* \* \*\*

**Marking** Ex ib IIC T4 Gb , Ex tD A21 IP67 T80°C

**Standard(s)** --

**Drawing No.** CERT-ES-02495-1

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 3836.4-2010 Explosive atmospheres - Part 4: Equipment protection by intrinsic safety "i"
- 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 enclosure "tD"

Note:

See Annex (2 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:0377-63298864 Fax:0377-63208175 Web:www.china-ex.com

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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.

# 防爆合格证 (附页)

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1.This product has been certified, under certificate number IECEx BAS 11.0022X, issue 3, dated 2021-06-22.

2.Type designation:

DX\* F\*O \*\*\*\* \* \*\*

DX	*	F	*	O	****	*	**
	(1)		(2)		(3)	(4)	(5)

- 1) Enclosure: P, S, R  
P=Coated Aluminium  
S=Stainless Steel  
R=Glass Fibre Reinforced Resin
- 2) Device: F, L, P  
F=Potentiometer Assembly Fitted  
L=Go Limit Switches Fitted  
P=Potentiometer &Go Limit Switches Fitted
- 3) Denotes any number or character (Not affecting Ex performance)
- 4) Piezo Pilot Valve: P, R  
P=(Single Acting) 6V Fail Open/Close (Spring return)  
R=(Dual Acting) 6V Fail Last Position
- 5) Denotes any number or character (Not affecting Ex performance)

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Address: No.20 North Zhongjing Rd, Nanyang, Henan 473008, P.R.China  
Tel:0377 63258564 Fax:0377 63208175 Web:www.china-ex.com

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3.Input Parameters: Bus Connector J1 pins 1 to 3

4.I.S Parameters:  $U_i=30V$ ,  $I_i=380mA$ ,  $P_i=1.5W$ ,  $C_i=5nF$ ,  $L_i=10\mu H$ .

5.Ingress protection: IP67.

6.Ambient temperature:  $-20^{\circ}C \sim +50^{\circ}C$ .

7.Specific conditions of safety use:

- 1) When fitted, only non-combustible fluids may be used in the pneumatic circuit.
- 2) DXR Models Only: The equipment shall only be installed in a location where there is a low risk of mechanical damage. The enclosure constitutes a potential electrostatic risk and must only be cleaned with a damp cloth.
- 3) When using this product, it must be powered by an Ex ia IIC intrinsically safe power supply that meets the GB3836.4 standard and has obtained certification.

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