

防爆合格证

Electrical Apparatus for Explosive Atmospheres CERTIFICATE OF CONFORMITY



国家防爆

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

Product Switchboxes

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

Marking Ex ia IIC T4 Ga , Ex iaD 21 T135°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 3836.4-2010 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
- GB12476.4-2010 Electrical apparatus for use in the presence of combustible dust - Part 4: Protection by intrinsic safety "iD"

Note:
See Annex (3 pages in total).

Director

Date:

2022-03-07

Valid until:

2027-03-06



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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 certified, under certificate number IECEx UL 20.0070X, issue 3, dated 2021-09-30.

2.Type designation:

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

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

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- 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.)

3. PARAMETERS RELATING TO THE SAFETY:

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

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Page 3 of 3

	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

4. Ingress protection: IP66/67

5. Ambient temperature: -40°C~+80°C.

6. Specific conditions of safety use:

- 1) All unused entries must be filled with a suitably certified Ex component blanking plug.
- 2) The plastic parts of the enclosure have the potential to produce electrostatic discharge. Clean only with damp cloth.

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