



国家防爆

Certificate number: CNEx22.0549X

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 TX*-*C***M*****

Marking Ex d IIC T6/T5/T4 Gb, Ex tD A21 IP66/67 T85°C/T100°C/T135°C

Standard(s) --

Drawing No. CERT-ES-02477-1

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 (4 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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1. This product has been IECEx certified, certificate No. IECEx SIR 06.0054X, issue 13, dated 2021-05-19.

2. Type designation:

TX	*	-	*	C	*	*	*	M	*	*	*	*	*	*
1)	2)		3)	4)	5)	6)	7)	8)	9)	10)	11)	12)	13)	14)

1) Enclosure

2) Enclosure Material:

P=Aluminum

S=316SS

3) Bus/Sensor

A0 = AS-i (no switches)

A4 = AS-I w/(2) P+F NBB2-V3-E2

A5 = AS-I w/(2) P+F NBB3-V3-Z4

AM = AS-I w/(2) MECH SWITCH SPDT

AS = AS-I w/(2) SPDT GO Switches

D0 = Devicenet (no switches)

D2, D4 = 36SD SERIES GO SWITCH 1 AMP

DM = Devicenet w/(2) MECH SWITCH SPDT

DN = Devicenet w/(2) SPDT GO Switches

E1, E2, E3, E4 = P+F NJ2-V3-N

EX = (2) P+F NJ2-V3-N w/4-20mA Transmitter

K1, K2, K3, K4 = MECH SWITCH SPDT w/GOLD CONTACTS

KX = (2) MECH SWITCH SPDT w/4-20mA Transmitter

L1, L2 = GO SWITCH SPDT

M1, M2, M3, M4 = MECH SWITCH SPDT

MX = (2) MECH SWITCH SPDT w/4-20mA Transmitter

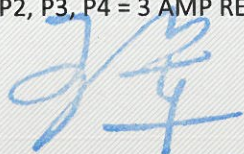
N1, N2, N3, N4 = ANY NAMUR SWITCH

NX = (2) ANY NAMUR SWITCH w/4-20mA Transmitter

P0 = Profibus (no switches)

P1, P2, P3, P4 = 3 AMP REED SWITCH

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- PM = PROFIBUS w/(2) MECH SWITCH SPDT
- PB = PROFIBUS w/(2) SPDT GO Switches
- R1, R2, R3, R4 = 1 AMP REED SWITCH
- S2, S4 = 36SD SERIES GO SWITCH 3 AMP
- T2 = MECH SWITCH DPDT
- TX = MECH SWITCH DPDT w/4-20mA Transmitter
- 00 = NO SWITCH
- 0X = 4-20mA Transmitter
- 21, 22 = HIGHLY TS18-08P-1
- 41, 42, 43, 44 = P+F NBB2-V3-E2
- 51, 52, 53, 54 = P+F NBB3-V3-Z4

4) Area Class

C = Ex d IIC T6/T5/T4 Gb, Ex tD A21 IP66/67 T85°C/T100°C/T135°C

5) Visual Display: ANY NUMBER OR LETTER

6) Shaft: ANY NUMBER OR LETTER

7) Conduit Entries: ANY NUMBER OR LETTER

8) O-Rings:

M = SILICONE

9) Pilot

0 or BLANK = No Pilot

10) Spool:

0 OR BLANK = None

11) Valve Cv:

0 OR BLANK = None

12) Override:

0 OR BLANK = None

13) Regional Certs:

BLANK = UL (North America), IECEx, ATEX

B = InMetro (Brazil)

K = KCs (Korea)

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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. The cable entry points may have the thread form ½" x 14 NPT.
The Type TXP Limit Switch Enclosure may contain up to four limit switches and a 1 KΩ potentiometer in varying combinations.
The Type TXP and TXS may be fitted with a venting/breathing device.
The Type TXP and Type TXS may be fitted with 'Go' Switches.
The Types TXP and TXS may be manufactured from stainless steel to become Types TXP-S/S and TXS-S/S respectively.
The Type TXP and Type TXP-S/S may have their switches replaced by two Pepperl & Fuchs Type NJ2-SN 8 V dc 3 mA proximity sensors to become Types TXP-1 and TXP-1-S/S respectively.
4. The Types TXP, TXP-S/S, TXS and TXS-S/S may be fitted with the following Bus Network Cards introducing the following suffix:

Suffix	Card Type
A	ASI
B	Profibus DP
C	Profibus PA
D	Foundation Fieldbus
E	Position Transmitter
F	Devicenet
G	Modbus

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5. Ex marking: Ex d IIC T6/T5/T4 Gb, Ex tD A21 IP66/67 T85°C/T100°C/T135°C
6. The corresponding relationship between ambient temperature and temperature class is shown in the following table:

	ambient temperature	Temperature class
Gas	-65°C to +40°C	T6
	-65°C to +60°C	T5
	-65°C to +80°C	T4
Dust	-50°C to +40°C	T85°C
	-50°C to +60°C	T100°C
	-50°C to +80°C	T135°C

7. Specific conditions of safety use:

- 1) The slotted hexagonal head cover screws are not of standard form; they shall only be replaced with identical screws sourced from the equipment manufacturer.
- 2) The hexagonal head cover screws are to be replaced only with stainless steel A2-70 or A4-80 screws to GB/T3098.6.
- 3) Cover fasteners are to be tightened to a torque value of 10.85 Nm (8ft/lbs) minimum.
- 4) 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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