



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2022312304001255

Applicant Topworx Incorporated
Address 3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America
Manufacturer Topworx Incorporated
Address 3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America
Production Factory Emerson AFCP Poland Sp. z o.o.
Production Address Kurczaki 132, Lodz 93-331, Poland
Product Switch boxes
Model/Type TV*-2***M*****
Ex marking See Annex
Reference Standards GB/T3836.1-2021, GB/T3836.3-2021, GB/T3836.8-2021, GB/T3836.31-2021,

Certification mode Type Test + Initial Factory Inspection + Post-Certification Surveillance

The product(s) is verified and certified according to CNCA-C23-01: 2019 *China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product* and CNEX-C2301-2019 *Guideline of China Compulsory Certification Implementation Rule on Explosion Protected Electrical Product*.

See Annex for the detailed product information (5 pages)

Initial issue date: 2022-01-07

Issued date: 2023-03-27

Valid to: 2027-01-06

The validity of this certificate is maintained through the regular supervision of the issuing authority during the validity period.

Where any discrepancy arises between the English translation and the original Chinese version, the Chinese version shall prevail.

Director:



Nanyang Explosion Protected Electrical Apparatus Research Institute Co.,Ltd.



<http://www.ccc-cnex.com>
ccc.china-ex.com

Add: No. 20, North Zhongjing Road, Nanyang, Henan, P. R. China
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CN 0001683



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION (Annex)

No.: 2022312304001255

Page 1 of 5

Product information:

1. This certificate covers the following models:

- TV*-2***M*****

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

- 1) Enclosure
TV – Series
- 2) Enclosure Material
L – Aluminum
H – Stainless Steel
- 3) Sensor/Switch Supplement
See Tables Below
- 4) Area Classification
2 – Zone 2, Zone 22
- 5) Visual Display
X - Any letter or number
- 6) Shaft
L - 1" Extended Linear, 316L SS
N - NAMUR, 316L SS
- 7) Conduit Entries
X – Any letter or number
- 8) O-ring Option
M - Silicone
- 9) Pilot Type/Action
Blank or 0- No Pilot Devices

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No.: 2022312304001255

Page 2 of 5

- 10) Spool Valve Material
Blank or 0 - No spool valve
- 11) Valve CV
Blank or 0 - No valve
- 12) Manual Override
Blank or 0 - No PST 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.)

The permitted internal devices are as follows:

Device	Style(Option 3)	Ambient temp. range
Two reed switches (nC) type HSR-634W only	P2	-40°C ~ +55°C
Two or four reed switches (nC) type LV ELE145 only	R2, R4	-40°C ~ +95°C
ASI module (ec) plus two reed switches (nC)	AS	-40°C ~ +85°C
Device Net module (ec) plus two reed switches (nC)	DN	-40°C ~ +85°C

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No.: 2022312304001255

Page 3 of 5

Profibus module (ec) plus two reed switches (nC)	PB	-40°C ~ +85°C
Two reed switches (nC) plus TopWorx 4-20 mA Transmitter Module (ec) and associated potentiometer	PX, RX	-40°C ~ +55°C
TopWorx 4-20 mA Transmitter Module (ec) and associated potentiometer only	0X	-40°C ~ +55°C
Two or four Series 36 GO switches (nC), 120Vac/4A, 24Vdc/3A	G2/G4	-40°C ~ +80°C
Two or four Series 36 GO switches (nC), 120Vac/2A, 24Vdc/1A	Q2/Q4	-40°C ~ +80°C
LED Board, Q, P, R switch options	S	-40°C ~ +60°C
Series 36SD GO Switch module, 120Vac/4A, 24Vdc/3A	S2, S4	-40°C ~ +80°C
Series 36SD GO Switch module, 120Vac/2A, 24Vdc/1A	D2, D4	-40°C ~ +80°C

The marking is as follows:

Sensor (Option 3)	Certification code (gas)	Certification code (dust)	Ambient temperature range

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No.: 2022312304001255

Page 4 of 5

P2	Ex ec nC IIC T6 Gc Ex ec nC IIC T4 Gc	Ex tc IIIC T85°C Dc Ex tc IIIC T115°C Dc	-40°C ~ +55°C -40°C ~ +80°C
R2, R4	Ex ec nC IIC T3 Gc Ex ec nC IIC T3 Gc	Ex tc IIIC T85°C Dc Ex tc IIIC T115°C Dc	-40°C ~ +60°C -40°C ~ +95°C
0X	Ex ec IIC T4 Gc	Ex tc IIIC T70°C Dc	-40°C ~ +55°C
PX, RX	Ex ec nC IIC T4 Gc	Ex tc IIIC T115°C Dc	-40°C ~ +55°C
Q2, Q4, G2, G4	Ex ec nC IIC T6 Gc Ex ec nC IIC T4 Gc	Ex tc IIIC T85°C Dc Ex tc IIIC T115°C Dc	-40°C ~ +55°C -40°C ~ +80°C
AS, DN, PB	Ex ec nC IIC T4 Gc	Ex tc IIIC T115°C Dc	-40°C ~ +85°C
S	Ex ec nC IIC T4 Gc	Not applicable	-40°C ~ +60°C
D2, D4, S2, S4	Ex ec nC IIC T6 Gc Ex ec nC IIC T4 Gc	Ex tc IIIC T85°C Dc Ex tc IIIC T115°C Dc	-40°C ~ +55°C -40°C ~ +80°C

- Producers should organize production in accordance with the technical documents approved by the certification body.

2. Specific conditions of safety use:

- Ingress protection: IP66/IP68(1m/24h).

- When fitted with an indicator dome, the non-metallic parts incorporated in the enclosure of this equipment may generate an ignition capable level of electrostatic charge. Therefore, the equipment shall only be cleaned with a damp cloth.

- When the supply to the Series 36 & 36SD GO Switches do not exceed 60 VAC/85VDC, the supply shall be protected such that transients are limited to a maximum of 119 V. If the supply is above 60VAC / 85 VDC but not exceeding 120 VAC,

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Page 5 of 5

the supply shall be protected such that the transients are limited to a maximum of 238 V.

- The supply values, when option S LED board is fitted, are $U_{max} = 24V$, $I_{max} = 250 \text{ mA}$ and $P_{max} = 1.2W$.

- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2109C049, CQST2109C049/01

- Factory inspection report: CN2021Q010526

4. Certificate change information:

- 1st change on March 27, 2023: Updated the standards for certification.

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