



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312315000505

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 Asco Valve (Shanghai) Co. Limited
Production Address No.480, Xin Miao No.3 Road, Xin Qiao Town, Song Jiang District, Shanghai 201612, China
Product Proximity Switches
Model/Type 7***5*****
Ex marking Ex db IIC T3/T4/T6 Gb, Ex tb IIIC T200°C/T135°C/T85°C Db
Reference Standards GB/T3836.1-2021, GB/T3836.2-2021, 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 (3 pages)

Initial issue date: 2021-10-29

Issued date: 2023-03-20

Valid to: 2026-10-28

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>
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Product information:

1. This certificate covers the following models:

- 7***5*****

Nomenclature for model:

7	*	*	*	5	*	*	*	*	*	*****
Series	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)

- 1) Body style: 1 or 1M, 2 or 2M, 3 or 3M, 4 or 4M, 5 or 5M, 6 or 6M, 7, G or GM, I
 1M,2M: M12×1
 3M,4M,5M,6M,GM: M18×1
- 2) Contact arrangement: 1, 2
 1: S.P.D.T
 2: D.P.D.T
- 3) Sensing distance: 3, 4, 5, 6
 3: 2.5mm
 4: 1.8mm
 5: 1.5mm
 6: 1.0mm
- 4) Outlet position: 5
- 5) Enclosure material: 2 or 6
 2: 303 S.S
 6: 316 S.S
- 6) Certified Option: T, 9
 T: Ex d with Hermetic seal
 9: Ex d
- 7) Termination type: A, B, F, H, R
 A: PVC insulated leads
 B: PVC jacketed cable
 F: TEFLON insulated leads
 H: PEEK insulated leads
 R: RAYCHEM cable
- 8) Termination length: 2, 3, 4, 5, 6, 7, 8

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- 2: 3'
- 3: 6'
- 4: 12'
- 5: 25'
- 6: 50'
- 7: 100'
- 8: 250'

9) Regional Cert

- 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)

10) Custom Build Indents

6 digits (without relevance for explosion protection.)

Rated value of electrical parameters: up to:

	V a.c.	V d.c.	A
SPDT Switch	240	-	2
	120	-	4
	-	24	3
DPDT Switch	240	-	2
	120	-	3
	-	24	1

Ex marking: Ex db IIC T3/T4/T6 Gb, Ex tb IIIC T200°C/T135°C/T85°C Db

Alternative markings showing various combinations of temperature class and ambient temperatures are permitted for the proximity switches when they are made with different cable types:

Switch Model	Cable Type	Ambient	Temperature class
71, 73, 74, 75, 77, 7G, 7I	PVC leads	-40°C~50°C	T6/T85°C

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72, 74, 76	Raychem cable	-55°C~50°C	T6/T85°C
		-55°C~100°C	T4/T135°C
		-55°C~100°C	T3/T200°C
71, 73, 74, 75, 77, 7G, 7I	Teflon leads	-40°C~100°C	T4/T135°C
71, 73, 74, 75, 77, 7G, 7I	Peek leads	-40°C~150°C	T3/T200°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.
- The integral supply cables must be mechanically protected and terminated in a suitable terminal or junction facility.
- An external earth bonding connection may be maintained by either the external mounting thread and/or the internal cable gland/ conduit entry thread.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2106C171, CQST2106C171/01
- Factory inspection report: CN2021Q010485

4. Certificate change information:

- 1st change on March 20, 2023: Updated the standards for certification.

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