



国家防爆

Certificate number: CNEx22.0963X

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 Proximity Switches

Type 7***5*****

Marking Ex d IIC T3/T4/T6 Gb , Ex tD A21 IP66 T200°C/T135°C/T85°C

Standard(s) --

Drawing No. CERT-S-A70-0342

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 3836.2-2014 Explosive atmospheres - Part 2: Equipment protection by flameproof enclosure "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 enclosure "tD"

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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1.This product has been certified, under certificate number IECEx BAS 08.0122X, issue 2, dated 2020-02-26.

2.Type designation:

7***5*****

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

- 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

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8) Termination length: 2, 3, 4, 5, 6, 7, 8

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.)

3.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 |

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4. 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 |
| 72, 74, 76 | Raychem cable | -55°C~50°C | T6/T85°C |
| | | -55°C~100°C | T4/T135°C |
| 71, 73, 74, 75, 77, 7G, 7I | Teflon leads | -40°C~100°C | T3/T200°C |
| 71, 73, 74, 75, 77, 7G, 7I | Peek leads | -40°C~150°C | T4/T135°C |

5. Specific conditions of safety use:

- 1) The integral supply cables must be mechanically protected and terminated in a suitable terminal or junction facility. .
- 2) An external earth bonding connection may be maintained by either the external mounting thread and/or the internal cable gland/ conduit entry thread.

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