



Electrical Apparatus for Explosive Atmospheres

CERTIFICATE OF CONFORMITY

Manufacturer

Topworx Incorporated

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

Product

国家防爆

GO Switch

Type

81-*0**F-*******, 81-*0**G-*******, 81-*0**H-******

Marking

Ex ia IIC T6/T4/T3 Ga, Ex iaD 20 T85 ℃/T135 ℃/T200 ℃

Standard(s)

Drawing No.

CERT-ES-03565-1

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" Electrical apparatus for use in the presence of combustible dust - Part 1:General

GB12476.1-2013

GB12476.4-2010

Electrical apparatus for use in the presence of combustible dust - Part4:

Protection by intrinsic safety "iD"

Note:

See Annex (4 pages in total).

Director

Date:

Valid until:

2027-03-06





NANYANG EXPI

国家防爆电

CHINA NATIONAL QUALITY SUF North Zhongjing Rd,Nany 58564 Fax:0377 63208175 Tel:037

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Note: This certificate is only valid for products which are identical with mple(s) tested and verified.Holder of this certificate has the responsibility to ensure the products comply with relevant standards.



防爆合格证

Electrical Apparatus for Explosive Atmospheres

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Page 1 of 4

1. This product has been IECEx certified, certificate No. IECEx BAS 12.0115X, issue 2, dated 2015-06-09.

2. Nomenclature of 81-*0**F/G-******:

81	-	*	0	*	*	*	-	*	*	*****
		1)		2)	3)	4)	V/////	5)	6)	7)

1) Contact Form

国家防爆

1=Single Pole, Double Throw 2=Double Pole, Double Throw

2) Outlet Position

1=Side Outlet

5=Bottom Outlet

Enclosure Material 1=Stainless Steel

2=316L Stainless Steel

Certification Code

F=Zone 0, Temp.Class.T6

G=Zone 0, Temp.Class.T4

5) Termination Options

A2=3' PVC Covered Leads

A3=6' PVC Covered Leads

A4=12' PVC Covered Leads

A5=25' PVC Covered Leads A6=50' PVC Covered Leads

A7=100' PVC Covered Leads

A8=250' PVC Covered Leads

B2=3' Rubber Covered Cable B3=6' Rubber Covered Cable

B4=12' Rubber Covered Cable

B5=25' Rubber Covered Cable

B6=50' Rubber Covered Cable

B7=100' Rubber Covered Cable

B8=250' Rubber Covered Cable

Director

Date:

alid until:

2027-03-0

有阳防爆电气研究所

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CHINA NATIONAL QUALITY SURVEY AND TEST CENTER FOR EXPLOSION OSION PROTECTED ELECTRICAL PRODUCTS
Henan (473008), P.R. China th Zhongjing Rd,Nany 564 Fax:0377 63208175 Tel:03





防爆合格证(附页

Electrical Apparatus for Explosive Atmospheres

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F2= 3' Teflon Covered Leads

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F3= 6' Teflon Covered Leads

F4= 12' Teflon Covered Leads

F5=25' Teflon Covered Leads

F6=50' Teflon Covered Leads

F7=100' Teflon Covered Leads

F8=250' Teflon Covered Leads

S2= 3' Silicone Covered Leads

S3= 6' Silicone Covered Leads

S4= 12' Silicone Covered Leads

S5=25' Silicone Covered Leads

S6=50' Silicone Covered Leads

S7=100' Silicone Covered Leads

S8=250' Silicone Covered Leads

DCD=4 Pin Mini-Charge Male Connector

DCG=5 Pin Mini-Charge Male Connector

DCH=7 Pin Mini-Charge Male Connector

6) 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)

7) Custom Build Indents

6 digits (without relevance for explosion protection)

The product is powered by Ex ia IIC intrinsically safe power supply that meets the GB3836.4 standard.

Input Parameters:

Switch Variants with Termination Options 'DCD', 'DCG' & 'DCH':

Ui=30V, Ii=0.25A, Ci=0nF, Li=0μH

Switch Variants with Wiring Options 'A*', 'B*', 'F*' & 'S*'

Ui=30V, Ii=0.25A, Ci=33nF, Li=200µH

Director

Date:

2022-03-07

Valid until:

2027-03-06



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3. Nomenclature of 81-*0**H-******:

81	-	*	0	*	*	Н	-	*	*	*****
		1)		2)	3)	4)		5)	6)	7)

1) Contact Form

国家防爆

1=Single Pole, Double Throw

2=Double Pole, Double Throw

2) Outlet Position

1=Side Outlet

5=Bottom Outlet

3) Enclosure Material

1=Stainless Steel

2=316L Stainless Steel

4) Certification Code

H=Zone 0, Temp.Class.T3

5) Termination Options

F2= 3' Teflon Covered Leads

F3= 6' Teflon Covered Leads

F4= 12' Teflon Covered Leads F5=25' Teflon Covered Leads

r5=25 Tetion Covered Leads

F6=50' Teflon Covered Leads

F7=100' Teflon Covered Leads F8=250' Teflon Covered Leads

S2= 3' Silicone Covered Leads

S3= 6' Silicone Covered Leads

S4= 12' Silicone Covered Leads

S5=25' Silicone Covered Leads

S6=50' Silicone Covered Leads

S7=100' Silicone Covered Leads

S8=250' Silicone Covered Leads

6) Regional Cert

Blank: UL (North America), IECEx, ATEX

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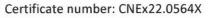
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N: CCCEx (China)

P: PESO (India)

R: EAC (Eurasian Economic Union)

T: ITRI (China Taiwan)

7) Custom Build Indents

6 digits (without relevance for explosion protection)

The product is powered by Ex ia IIC intrinsically safe power supply that meets the GB3836.4 standard.

Input Parameters: Ui=30V, Ii=0.25A, Ci=33nF, Li=200μH

Ex marking:

国家防爆

Model Number	Marking				
81-*0**F-******	Ex ia IIC T6 Ga, Ex iaD 20 T85 °C (-40 °C ≤Ta≤+50 °C)				
81-*0**G-******	Ex ia IIC T4 Ga, Ex iaD 20 T135 °C (-40 °C ≤Ta≤+100 °C)				
81-*0**H-******	Ex ia IIC T3 Ga, Ex iaD 20 T200°C (-40°C ≤Ta≤+150°C)				

4. Specific conditions of safety use:

- 1) All switch contacts within one limit switch assembly must form part of the same intrinsically safe circuit.
- 2) The proximity switches do not require a connection to earth for safety purposes, but an earth connection is provided which is directly connected to the metallic enclosure. Normally an intrinsically safe circuit may be earthed at one point only. If the earth connection is used, the implications of this must be fully considered in any installation. i.e. by the use of a galvanically isolated interface.
- 3) When using this product, it must be powered by an Ex ia IIC intrinsically safe power supply that meets the GB3836.4 standard and has obtained certification.
- 4) The flying leads must be terminated in a manner suitable for the zone of installation.

Director

Date: 2022-03-07

Valid until:

2027-03-06



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