



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No.: 2021312315000496

**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** Topworx Incorporated  
**Production Address** 3300 Fern Valley Road, Louisville, Kentucky 40213, United States of America  
**Product** GO Switch  
**Model/Type** 81-\*0\*\*F-\*\*\*\*\*, 81-\*0\*\*G-\*\*\*\*\*, 81-\*0\*\*H-\*\*\*\*\*  
**Ex marking** Ex ia IIC T6/T4/T3 Ga, Ex ia IIIC T85°C/T135°C /T200°C Da  
**Reference Standards** GB/T 3836.1-2021, GB/T 3836.4-2021

**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 CNEC-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: 2021-10-25

Issued date: 2023-03-25

Valid to: 2026-10-24

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](http://ccc.china-ex.com)

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CN 0001657



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## (Annex)

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**Product information:**

1. This certificate covers the following models:

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

Nomenclature of 81-\*0\*\*F/G-\*\*\*\*\*:

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

- 1) Contact Form
  - 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
  - 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

Issued date: 2023-03-25

Director:



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- 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
  - F2= 3' Teflon Covered Leads
  - 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)

Issued date: 2023-03-25

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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 GB/T 3836.4 standard.

Input Parameters:

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

Ui=30V, li=0.25A, Ci=0nF, Li=0μH

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

Ui=30V, li=0.25A, Ci=33nF, Li=200μH

Nomenclature of 81-\*0\*\*H-\*\*\*\*\*:

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

- 1) Contact Form  
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

Issued date: 2023-03-25

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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
- 6) Regional Cert
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  - 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 GB/T 3836.4 standard.

Input Parameters:  $U_i=30V$ ,  $I_i=0.25A$ ,  $C_i=33nF$ ,  $L_i=200\mu H$

Ex marking:

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

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

2. Specific conditions of safety use:

- All switch contacts within one limit switch assembly must form part of the same intrinsically safe circuit.
- 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 implication of this must be fully considered in any installation, e.g. by use of a galvanically isolated interface.
- When using this product, it must be powered by an Ex ia IIC intrinsically safe power supply that meets the GB/T 3836.4 standard and has obtained CCC certification.
- The flying leads must be terminated in a manner suitable for the zone of installation.
- See instruction for other information.

3. Certificate related report(s):

- Type test report: CQST2106C174, CQST2106C174/01
- Factory inspection report: CN2021Q010370

4. Certificate change information:

- 1st change on March 25, 2023: Updated the standards for certification.

Issued date: 2023-03-25

Director:



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