



# IECEx Certificate of Conformity

## INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit [www.iecex.com](http://www.iecex.com)

Certificate No.: **IECEx NEP 20.0010X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: **2020-04-08**

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**  
No. 555, Baoqian Road, Jiading District, Shanghai 201808  
**China**

Equipment: **Explosion-proof Position Switches HRZX91-\*\***

Optional accessory:

Type of Protection: **Flameproof enclosure "d", Protection by enclosure "t"**

Marking: **Ex db II C T6 Gb, Ex tb III C T80°C Db**  
**T<sub>amb</sub>: (-60~+60)°C**

Approved for issue on behalf of the IECEx  
Certification Body:

**Xu Jianping**

Position:

**Managing Director**

Signature:  
(for printed version)

Date:

8 April 2020

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

**Shanghai Inspection and Testing Institute of Instruments  
and Automatic Systems Co., Ltd. (SITIIAS)/  
National Supervision and Inspection Center for Explosion  
Protection and Safety of Instrumentation (NEPSI)**  
103 Cao Bao Road  
Shanghai 200233  
China



**SITIIAS**  
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Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**  
No. 555, Baoqian Road, Jiading District, Shanghai 201808  
**China**

Additional  
manufacturing  
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

## STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

**IEC 60079-0:2017** Explosive atmospheres - Part 0: Equipment - General requirements  
Edition:7.0

**IEC 60079-1:2014-06** Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"  
Edition:7.0

**IEC 60079-31:2013** Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements  
other than those expressly included in the Standards listed above.

## TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[CN/NEP/ExTR20.0010/00](#)

Quality Assessment Report:

[CN/NEP/QAR18.0001/01](#)



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Explosion-proof Position Switch consists of enclosure and back cover, made of die-casting aluminium ZL102. The enclosure is equipped with a position switch movement, which drives the opening and closing of the contact with the operating arm to convert a mechanical signal into an electrical signal for controlling a mechanical action or program in the control circuit. A threaded hole is provided in the back cover of the Explosion-proof Position Switch for certified cable gland or blanking plug. The degree of protection of Explosion-proof Position Switch is IP66 (IEC60529).

## SPECIFIC CONDITIONS OF USE: YES as shown below:

1. When Explosion-proof Position Switch is installed in explosive atmosphere, cable gland or blanking plug, with type of protection Ex db II C Gb, Ex tb III C Db, threaded type M20×5, 1/2"NPT and degree of protection IP66, shall be adopted.
2. Contact the original manufacturer for the information of dimension of flameproof joint
3. The Special fastener shall have a property class of A2-70.
4. Observe the warning:

"DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT!".

"POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS!"

## Annex:

Annex to IECEx NEP 20.0010X.00.pdf.pdf

Shanghai Inspection and Testing Institute of Instruments  
and Automatic Systems Co., Ltd. (SITIIS)  
National Supervision and Inspection Center for Explosion  
Protection and Safety of Instrumentation (NEPSI)  
103 Cao Bao Road, Shanghai 200233, China



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**Annex to IECEx Certificate of Conformity of IECEx NEP 20.0010X Issue No.0**

**1. Equipment model:**

HRZX91- \* \*

Machine code: I , II ,III,IV, V ,VI

D: Fixed rocker arm type;  
Z:Plunger type;  
L: Roller plunger type;  
N: Flexible contact;  
K:Adjustable rocker arm type

Design No.

Explosion-proof Position Switches

**2. Main Technical parameter**

Ue: Max.380VAC 50/60Hz, Ie:3A, Ithe:10A;

Ue: Max.250VDC, Ie:0.27A, Ithe:10A