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

Certificate No.: **IECEx NEP 24.0037X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2024-12-09

Applicant: **WAROM TECHNOLOGY INCORPORATED COMPANY**
555 Baoqian Road, Jiading District, Shanghai, 201808
China

Equipment: **Explosion-proof LED Lightings Model HRND95-***

Optional accessory:

Type of Protection: **Ex ec, mc, tb**

Marking: Ex ec mc IIC T5 Gc , Ex tb IIIC T82℃ Db

T_{amb}：-40℃～+40℃

Ex ec mc IIC T4 Gc , Ex tb IIIC T100℃ Db

T_{amb}：-40℃～+58℃

Approved for issue on behalf of the IECEx Certification Body: **Guo Aihua**

Position: **General Manager**

Signature:
(for printed version)

Date:
(for printed version)

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.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

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

IECEx Certificate of Conformity

Manufacturer: **WAROM TECHNOLOGY INCORPORATED COMPANY**
555 Baoqian Road, Jiading District, Shanghai, 201808
China

Manufacturing locations:

WAROM TECHNOLOGY INCORPORATED COMPANY
555 Baoqian Road, Jiading District, Shanghai, 201808
China

WAROM Technology Mena Fzco
Plot No.S31223, Jebel Ali Free Zone
Dubai 263667
United Arab Emirates

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 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-31:2022 Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR24.0050/00

Quality Assessment Report:

CN/CQM/QAR07.0003/13

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The enclosure of HRND95 series Explosion-proof LED Lightings is made of aluminium alloy material and the light transmitting part is made of tempered glass. The LED modules are included in the LED chamber, this part of equipment is interconnected via a threaded entry to the terminal chamber where the other electrical components (such as LED driver and terminal blocks) are installed. The LED modules and other electrical components (such as LED driver and terminal blocks) are tested as a whole with the entire equipment and the built-in increased safety certified terminal is provided. The terminal chamber is provided with a threaded cable entry and internal earth connections. The degree of protection of the equipment is IP66 (IEC60529).

Refer to annex for further information.

SPECIFIC CONDITIONS OF USE: YES as shown below:
1. Ambient temperature: -40℃～+40℃(T5 or T82℃), -40℃～+58℃(T4 or T100℃).
2. Observe the warning:
WARNING-DO NOT OPEN WHEN ENERGIZED.
WARNING-DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT.
WARNING-POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS.
3. Explosion-proof LED Lightings risk of mechanical danger is low,reduce the risk of impact of foreign objects during installation.
4. When the product is installed in explosive gas atmosphere, the separated certified cable gland that comes with a sealing gasket fulfills the requirements of IEC 60079-0 and IEC 60079-7, with an Ex marking of Ex eb IIC Gb, and IP66 shall be incorporated.
5. When the product is installed in combustible dust atmosphere, the separated certified cable gland that comes with a sealing gasket fulfills the requirements of IEC 60079-0 and IEC 60079-31, with an Ex marking of Ex tb IIIC Gb, and IP66 shall be incorporated.

IECEx Certificate of Conformity

Equipment (continued):

See the annex

Annex:

Annex to IECEx NEP 24.0037X_1.pdf

Annex to IECEx Certificate of Conformity of IECEx NEP 24.0037X

General product information:

The enclosure of HRND95 series Explosion-proof LED Lightings is made of aluminium alloy material and the light transmitting part is made of tempered glass. The LED modules are included in the LED chamber, this part of equipment is interconnected via a threaded entry to the terminal chamber where the other electrical components (such as LED driver and terminal blocks) are installed. The LED modules and other electrical components (such as LED driver and terminal blocks) are tested as a whole with the entire equipment and the built-in increased safety certified terminal is provided. The terminal chamber is provided with a threaded cable entry and internal earth connections. The degree of protection of the equipment is IP66 (IEC60529).

Type code designation

HRND95 – *

Code of rating

Explosion-proof LED Lightings

*：Code of rating

40W(110-277V AC,50/60Hz;130-250V DC)

50W(110-277V AC,50/60Hz;130-250V DC)

60W(110-277V AC,50/60Hz;130-250V DC)

80W(110-277V AC,50/60Hz;130-250V DC)

120W(110-277V AC,50/60Hz;130-250V DC)

160W(110-277V AC,50/60Hz;130-250V DC)

200W(110-277V AC,50/60Hz;130-250V DC)

240W(110-277V AC,50/60Hz;130-250V DC)

300W(110-277V AC,50/60Hz;130-250V DC)

The relation between input power, ambient temperature, temperature class and maximum surface temperature is listed in the following table:

Input power	Temperature class/maximum surface temperature			
	Tamb:-40℃ ~ +40℃		Tamb:-40℃ ~ +58℃	
	Gas	Dust	Gas	Dust
40W,50W,60W,80W,120W,160W,200W,240W,300W	T5	T82℃	T4	T100℃