IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: IECEx FTZU 18.0009X

Issue No: 0

Certificate history:
Issue No. 0 (2019-06-28)

Status: **Current**

Date of Issue: **2019-06-28**

Applicant: **Jukolux Oy**
Yrittäjänkatu 15
65380 VAASA
Finland

Equipment: **LED floodlight model JUKO HX-*****-****

Optional accessory:

Type of Protection: **flameproof enclosure, increased safety, limited optical radiation, dust protection**

Marking:

Ex db eb op is IIC T5 Gb

Ex tb op is IIIC T95°C Db

Approved for issue on behalf of the IECEx Certification Body: Dipl. Ing. Lukáš Martinák

Position: Head of the Certification body

Signature:
(for printed version)

Date:

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 the Official IECEx Website.

Certificate issued by:

Fyzikalne technicky zkusebni ustav
(Physical -Technical Testing Institute)
Pikartska 7, 71607 Ostrava - Radvanice
Czech Republic

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Manufacturer:	**Jukolux Oy** Yrittäjänkatu 15 65380 VAASA **Finland**	

Additional Manufacturing location(s):

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 apparatus 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 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-28 : 2015 Edition:2	Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2015 Edition:5.0	Explosive atmospheres – Part 7: Equipment protection by increased safety "e"

*This Certificate **does not** indicate compliance with electrical 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:

CZ/FTZU/ExTR18.0014/00

Quality Assessment Report:

CZ/FTZU/QAR19.0002/00

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The equipment LED floodlight model JUKO HX-*****-** is made from aluminium alloy and consists of four enclosures:

1. Terminal blocks enclosure:
It is protected by the type of protection "eb" and "tb" and it is used for connection of power supply cable. This enclosure is equipped with two M25 thread holes for installation of appropriate certified Ex equipment cable gland / Ex blanking elements.

2. Driver and current limiter enclosure:
It is protected by the type of protection "db" and "tb".

Terminal block enclosure and driver enclosure are separated by bushing.

3. LED terminal block enclosure:
It is protected by the type of protection "eb" and "tb".

The output cable from driver enclosure is connected via the bushing and the cable gland to the LED terminal block enclosure.

4. LED module enclosure:
It is protected by the type of protection "db" and "tb". This enclosure consists of cover with the cemented sight glass and it is fixed to the body by special fasteners. There is installed LED module.

LED terminal enclosure and LED module enclosure are separated by bushing.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Ambient temperature range: -40°C to +40°C.

2. For information on the dimensions of the flameproof joints the manufacturer shall be contacted.

3. The equipment must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.

4. Fasteners with a minimum property class A4-70 must be used for mounting of flame proof enclosures parts.

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EQUIPMENT (continued):

Parameters:

Un = 100 … 240 VAC, 50-60 Hz

Models:
HX-06100-24: In = 1.0 A, Pn = 50 W, reflector 24°
HX-06100-40: In = 1.3 A, Pn = 70 W, reflector 40°
HX-06100-55: In = 1.6 A, Pn = 90 W, reflector 55°

HX-08500-24: In = 1.0 A, Pn = 50 W, reflector 24°
HX-08500-40: In = 1.3 A, Pn = 70 W, reflector 40°
HX-08500-55: In = 1.6 A, Pn = 90 W, reflector 55°

HX-11000-24: In = 1.0 A, Pn = 50 W, reflector 24°
HX-11000-40: In = 1.6 A, Pn = 70 W, reflector 40°
HX-11000-55: In = 1.6 A, Pn = 90 W, reflector 55°