



## EU - Type Examination Certificate

- (1)
- (2) **Equipment or Protective Systems Intended for Use  
in Potentially Explosive Atmospheres  
(Directive 2014/34/EU)**

(3) EU - Type Examination Certificate number:

**FTZÚ 23 ATEX 0017X**

- (4) Product: **Ex LED luminaire JUKO ALX**
- (5) Manufacturer: **Jukolux Oy**
- (6) Address: **Yrittäjänkatu 15, 65380 VAASA 15, Finland**
- (7) This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- (8) The Physical-Technical Testing Institute, Notified Body number 1026, in accordance with Articles 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26.02.2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential Report number:

**23/0017 dated 29.06.2023**

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
**EN IEC 60079-0:2018, EN 60079-7:2015+A1:2018, EN 60079-18:2015+A1:2018,  
EN 60079-28:2015, EN 60079-31:2014**
- (10) If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Use specified in the schedule to this certificate.
- (11) This certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- (12) The marking of the product shall include the following:



**II 2G Ex eb mb op is IIC T4 Gb  
II 2D Ex tb op is IIC T85°C Db**

This certificate is valid till: **30.06.2028**

Responsible person:

*Lukáš Martinák*

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 30.06.2023

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Annex: 1 (1 sheet)

This certificate is granted subject to the general conditions of the FTZÚ, s.p.  
This certificate may only be reproduced in its entirety and without any change, schedule included.



**Physical-Technical Testing Institute  
Ostrava - Radvanice**

(13)

**Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 23 ATEX 0017X**

(15) Description of Product:

The luminaire consists of an aluminium extrusion profile ended on each side by sealed aluminium covers. The light part is composed of an aluminium cooler on which are fixed from 1 to 4 Ex LED modules, a seal and a glass window with frame fixed to the profile with screws. The driver mounting plate with driver, terminal block - all as Ex components is inbuilt inside of an aluminium profile. The passage of the power supply cable to the driver mounting plate is ensured by Ex-threaded cable glands M20x1.5 or M25x1.5 through side covers in which Ex-breathing devices can be used. The optical angle used on the reflector can be in the range of 60° to 120°.

**Electrical parameters:**

Rated Voltage Un: 230 V, 50/60 Hz  
Rated current In: 150 mA  
Power: 25 W; 50W and 100 W  
Degree of IP protection: IP 66

**Type coding of luminaire: - see Annex No. 1**

(16) Report Number: 23/0017

(17) Specific Conditions of Use:

1. Ambient temperature range:  $-40^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ .
2. The luminaire must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
3. The used cable glands are only suitable for fixed installation. Cables shall be effectively clamped to prevent pulling or twisting.

(18) Essential Health and Safety Requirements:

Compliance with the Essential Health and Safety Requirements is covered by standards mentioned in clause (9) of this certificate.

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 30.06.2023

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Annex: 1 (1 sheet)



**Physical-Technical Testing Institute  
Ostrava - Radvanice**

(13)

**Schedule**

(14) **EU - Type Examination Certificate No. FTZÚ 23 ATEX 0017X**

(19) Drawings and Documents:

Number	Issue	Sheets	Date	Description
OI-ALX0001	2	18	20.06.2023	Operating instruction
ALX-12-M4-120-GL-C-M P-A-25-T3-1	B	10	14.03.2023	Drawing
ALX-12-M4-120-GL-C-M P-A-25-S1-1	B	10	14.03.2023	Drawing
ALX-06-M2-120-GL-F- P-A-25-ST1-1	B	2	14.03.2023	Drawing
ALX-06-M2-120-GL-C- P-A-25-T1-1	B	10	14.03.2023	Drawing
ALX-06-M2-120-GL-C- P-A-25-S1-1	B	11	14.03.2023	Drawing
ALX-06-M1-120-GL-C- M/P-A-25-S1-1	B	10	14.03.2023	Drawing

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 30.06.2023

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Annex: 1 (1 sheet)



Physical-Technical Testing Institute  
Ostrava - Radvanice

ANNEX No. 1

to EU - Type Examination Certificate No. FTZÚ 23 ATEX 0017X

Type coding of luminaire:

JUKO ALX-xx-Mx-xxx-GL-C-P-x-xx-xxx-x  
1 2 3 4 5 6 7 8 9 10

<b>1 Length of the luminaire</b>	
06	658 mm
12	1300 mm
<b>2 Amount of LED Modules</b>	
M1	1 LED module (25W)
M2	2 LED modules (50W)
M4	4 LED modules (100W ALX-12)
<b>3 Optics</b>	
060	60°
090	90°
120	120°
<b>4 Cover</b>	
GL	Glass
<b>5 Cover type</b>	
C	Clear
<b>6 Material of cable glands</b>	
P	Plastic

<b>7 Breather drain</b>	
A	M12
C	M20
<b>8 Size of cable glands</b>	
25	M25
32	M32
<b>9 Coupling</b>	
S1	1 phase
S3	3 phase
T1	Through wiring, 1 phase
T3	Through wiring, 3 phase
ST1	Same end through wiring, 1 phase
ST3	Same end through wiring, 3 phase
<b>10 Installation options</b>	
1	Basic
2	Heavy duty
3	Pole adapter
4	Adjustable handle
5	22,5°
6	45°
7	Adjustable angle 15° - 30°

Responsible person:

Dipl. Ing. Lukáš Martinák  
Head of Certification Body



Date of issue: 30.06.2023

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# 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 FTZU 23.0010X** Page 1 of 3 [Certificate history:](#)  
Status: **Current** Issue No: 0  
Date of Issue: **2023-06-30**  
Applicant: **Jukolux Oy, Yrittäjänkatu 15, 65380 Vaasa**  
**Finland**  
Equipment: **EX LED Luminaire, type JUKO ALX**  
Optional accessory:  
Type of Protection: **increased safety "e", protection by encapsulation "m", optical radiation "op is", protection by enclosure "t"**  
Marking: **Ex eb mb op is IIC T4 Gb**  
**Ex tb op is T85°C IIIC 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)

*Lukáš Martinák*  
2023-06-30

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](http://www.iecex.com) or use of this QR Code.



Certificate issued by:

**Fyzikálně technický zkusební ústav**  
**(Physical -Technical Testing Institute)**  
**Pikartská 7, 71607 Ostrava - Radvanice**  
**Czech Republic**





# IECEX Certificate of Conformity

Certificate No.: **IECEX FTZU 23.0010X**

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Date of issue: 2023-06-30

Issue No: 0

Manufacturer: **Jukolux Oy, Yrittäjänkatu 15, 65380 Vaasa  
Finland**

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 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"  
Edition:4.1

[IEC 60079-28:2015](#) Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation  
Edition:2

[IEC 60079-31:2013](#) Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"  
Edition:2

[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:

[CZ/FTZU/ExTR23.0010/00](#)

Quality Assessment Report:

[CZ/FTZU/QAR19.0002/02](#)





# IECEX Certificate of Conformity

Certificate No.: **IECEX FTZU 23.0010X**

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Date of issue: 2023-06-30

Issue No: 0

## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The luminaire consists of an aluminum extrusion profile ended on each side by sealed aluminum covers. The light part is composed of an aluminum cooler on which are fixed from 1 to 4 Ex LED modules (certificate No. IECEX FTZU 22.0005U), a seal and a glass window with frame fixed to the profile with screws.

The driver mounting plate with driver (certificate No. IECEX FTZU 23.0007U), terminal block - all as Ex components is inbuilt inside of an aluminum profile.

The passage of the power supply cable to the driver mounting plate is ensured by Ex-threaded cable glands M20x1.5 or M25x1.5 through side covers in which Ex-breathing devices can be used.

The optical angle used on the reflector can be in the range of 60° to 120°.

Electrical parameters:

Rated Voltage Un: 230 V, 50/60 Hz

Rated current In: 150 mA

Power: 25 W; 50W and 100 W

Degree of IP protection: IP 66

Type coding of luminaire – see Annex to Certificate of Conformity IECEX FTZU 23.0010X issue No.: 0

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

1. Ambient temperature range:  $-40\text{ °C} \leq T_a \leq +55\text{ °C}$ .
2. The luminaire must be installed to avoid a risk from propagating brush discharges for application in explosive dust atmosphere.
3. The used cable glands are only suitable for fixed installation. Cables shall be effectively clamped to prevent pulling or twisting.

## Annex:

[Annex\\_to\\_IECEX\\_FTZU\\_23\\_0010X\\_00.pdf](#)



Annex to Certificate of Conformity  
IECEX FTZU 23.0010X issue No.: 0



Applicant: Jukolux Oy  
Address: Yrittäjänkatu 15; 65380 VAASA; Finland

Electrical Apparatus: Ex LED Luminaire type JUKO ALX

**Type coding of luminaire:**

**JUKO ALX-xx-Mx-xxx-GL-C-P-x-xx-xxx-x**

**1 2 3 4 5 6 7 8 9 10**

<b>1 Length of the luminaire</b>		<b>7 Breather drain</b>	
06	658mm	A	M12
12	1300mm	C	M20
<b>2 Amount of LED Modules</b>		<b>8 size of cable glands</b>	
M1	1 LED module (25W)	25	M25
M2	2 LED modules (50W)	32	M32
M4	4 LED modules (100W ALX-12)		
<b>3 Optics</b>		<b>9 Coupling</b>	
060	60°	S1	1 phase
090	90°	S3	3 phase
120	120°	T1	Through wiring, 1 phase
		T3	Through wiring, 3 phase
		ST1	Same end through wiring, 1 phase
		ST3	Same end through wiring, 3 phase
<b>4 Cover</b>		<b>10 Installation options</b>	
GL	Glass	1	Basic
<b>5 Cover type</b>		2	Heavy duty
C	Clear	3	Pole adapter
<b>6 Material of cable glands</b>		4	Adjustable handle
P	Plastic	5	22,5°
		6	45°
		7	Adjustable angle 15°- 30°