



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 EESF 18.0029X** Page 1 of 4 [Certificate history:](#)
Issue 0 (2019-11-13)

Status: **Current** Issue No: 1

Date of Issue: 2020-10-08

Applicant: **Oy MTG-Meltron Ltd**
Laivakatu 3
Helsinki FI-00150
Finland

Equipment: **Luminaire for fixed installation; MEX****_****-...**

Optional accessory:

Type of Protection: **Ex eb mb op is / Ex tb**

Marking: **Standard versions:**
Ex eb mb op is IIC T5 Gb
Ex tb op is IIIC T85°C Db
-40 °C ≤ Tamb ≤ +60 °C

Daisy chain versions:
Ex eb mb op is IIC T4 Gb
Ex tb op is IIIC T85°C Db
-40 °C ≤ Tamb ≤ +40 °C

Approved for issue on behalf of the IECEx
Certification Body:

Kari Koskela

Position:

Senior Expert

Signature:
(for printed version)

Date:

2020-10-08

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:

Eurofins Expert Services Oy
Kivimiehentie 4
FI-02150 Espoo
Finland

 **eurofins** | Expert Services



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Manufacturer: **Oy MTG-Meltron Ltd**
Laivakatu 3
Helsinki FI-00150
Finland

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 60079-18:2017 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:

[FI/EESF/ExTR18.0018/01](#)

Quality Assessment Report:

[FI/EESF/QAR19.0016/02](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Models

Standard versions:

MEX0600-0300-..., MEX0900-0300-..., MEX1200-0300-... and MEX1500-0300-...

Daisy chain versions:

MEX0600-0301-..., MEX0900-0301-..., MEX1200-0301-... and MEX1500-0301-...

MEX0600-0302-..., MEX0900-0302-..., MEX1200-0302-... and MEX1500-0302-...

Rated values

$U_N = 220...240$ V AC

$P = 50$ W (max)

$f = 50 / 60$ Hz

Construction

The equipment is a series of LED luminaires including electronic control gear. The control gear and LED units have type of protection "mb". The whole assembly, including connections and wiring for the control gear and LED units as well as supply cable, is enclosed within a polycarbonate tube and the assembly has type of protection "eb" for potentially explosive gas atmospheres and "tb" for potentially explosive dust atmospheres.

The daisy chain versions (MEX****-0301-... and MEX****-0302-...) have through wiring for connecting the luminaires in series, see Manufacturer's instructions.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Electrostatic charging hazard; see the instructions of the manufacturer.

Luminaire has to be protected by external fuse with ratings of 250 V/10 A with current breaking capacity 1500 A.

Cable glands and breather vents with a seal to the enclosure shall be used.

If metallic cable glands are used, the capacitance value is of the order of 6 pF.

The adequate clamping of the cable shall be ensured by the user if so required in the CoC of the cable gland.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

New daisy chain models MEX0600-0302-..., MEX0900-0302-..., MEX1200-0302-... and MEX1500-0302-... added.
The name of the applicant / manufacturer has changed to Oy MTG-Meltron Ltd.