



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 EXV 24.0024X** Page 1 of 4 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2024-06-19
Applicant: **Wolf Safety Lamp Co. Limited**
Saxon Road Woks
Sheffield
S8 0YA
United Kingdom
Equipment: **TY-300 Series Portable LED Light**
Optional accessory:
Type of Protection: **Ex eb mb - increased safety & encapsulation. Ex tb - protection by enclosures**
Marking: Ex eb mb IIC T4 Gb
Ex tb IIIC T80°C Db

Approved for issue on behalf of the IECEx
Certification Body:

Sean Clarke CEng MSc FIET

Position:

Certification 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:

ExVeritas Limited
Units 16-18 Abenbury Way
Wrexham Ind. Est.
Wrexham LL 139UZ
United Kingdom





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Manufacturer: **Wolf Safety Lamp Co. Limited**
Saxon Road Woks
Sheffield
S8 0YA
United Kingdom

Manufacturing locations: **Wolf Safety Lamp Co. Limited**
Saxon Road Woks
Sheffield
S8 0YA
United Kingdom

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:

[GB/EXV/ExTR24.0061/00](#)

Quality Assessment Report:

[GB/BAS/QAR06.0017/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The TY-300 portable LED light range is intended for use in Zone 1, Zone 2, Zone 21 and Zone 22 Hazardous areas as a semi-fixed portable light. The TY-300 is suitable for hand-held usage, or suspension from the two swivel hooks located at either end of the fitting.

It is available in two sizes, each with different power inputs. The larger size has the option of through wiring for an inter-linkable lighting system. The model types are as shown below:

| Type | Voltage | Frequency | Current | Ambient Range | Temperature Class | Temperature (dust) |
|---------------|-----------|-----------|---------|----------------|-------------------|--------------------|
| TY-300/18/110 | 88-140 V | 50-60 Hz | 0.2 A | -20°C to +40°C | T4 | T80°C |
| TY-300/18/230 | 180-277 V | 50-60 Hz | 0.1 A | -20°C to +40°C | T4 | T80°C |
| TY-300/26/110 | 88-140 V | 50-60 Hz | 0.35 A | -20°C to +40°C | T4 | T80°C |
| TY-300/26/230 | 180-277 V | 50-60 Hz | 0.15 A | -20°C to +40°C | T4 | T80°C |

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The lights must be connected to a mains supply with a prospective short circuit current rating of 1500A or less.



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Additional information:

Routine tests:

- In accordance with EN/IEC 60079-18 clause 9.1 each single LED version of the LEDX LED assemblies shall be subjected to a visual inspection. No damage shall be evident, such as cracks in the compound, exposure of the encapsulated parts, flaking, inadmissible shrinkage, swelling, decomposition, failure of adhesion (separation of any adhered parts) or softening.
- In accordance with EN/IEC 60079-18 clause 9.2 each each single LED version of the LEDX LED assemblies shall be subjected to dielectric strength tests of 500 Vrms or 700 Vdc between LED+/LED- and heatsink/polycarbonate shell. The test voltage shall be applied for at least 1s. Alternatively 1.2 times the test voltage may be applied and maintained for at least 100 ms.

Manufacturer's Documents:

| Title: | Drawing No.: | Rev. Level: | Date: |
|--|--------------|-------------|------------|
| TY-300 Wiring and Layout | LD-0113 | 01 | 28/03/2024 |
| TY-300 Cert Label Drawing | LD-0120 | 01 | 15/04/2024 |
| Installation, Operation and Maintenance Instructions (4 pages) | LD-0121 | 1 | - |
| TY-300 Enclosure Construction (4 pages) | LD-0150 | 01 | 29/05/2024 |
| LEDX1P-x12 General Assembly | LD-0249 | 02 | 30/05/2024 |