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OVE Testing and Certification
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ENEC Certification Body registered under ID # 11.

Validity of ENEC Licences can be checked at www.enec.com

LICENCE

to use the European Mark



Licence No.: **80585-022**

Date of issue: Wien, 2020 06 18

OVE the Austrian Electrotechnical Association as signatory to the **"Agreement on the use of a commonly agreed Mark of Conformity for certain electrical equipment complying with European Standards"** hereby grants the right to label the products mentioned hereunder and listed in the Annex with the Mark(s) shown above to the following company

Licenceholder: **ZG Lighting France**
Route de Paix
27700 Les Andelys
France

Product: **Luminaires for road and street lighting**

Trade Mark: **THORN**

Series/Type: **GP AL ... CL1**

Basis for this given right is the conformity of the products with the requirements of the relevant Standard(s) as listed in the Annex and the fulfilment of articles 8 and 9 of the ENEC-Agreement by the manufacturer. This licence refers to the tested specimen and to all products manufactured strictly identical to the submitted one.

This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.

Österreichischer Verband für Elektrotechnik
Head of Testing and Certification

Digitally signed by W. Martin
Email=w.martin@ove.at

Dipl.-Ing. W. Martin



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| | |
|--|---|
| <i>Hersteller Manufacturer</i> | Thorn Lighting Ltd Durhamgate, Spennymoor, County Durham DL16 6HL United Kingdom |
| <i>Fertigungsstätte(n) Factory location(s)</i> | Europhane SAS Route de Paix 27700 Les Andelys France |
| <i>Typenbezeichnung Type reference</i> | GP AL S 12L ... CL1 ... GP AL S 24L ... CL1 ... GP AL S 36L ... CL1 ... GP AL S 48L ... CL1 ... GP AL M 72L ... CL1 ... GP AL L 144L ... CL1 ... GP AL XL 216L ... CL1 ..., see type code on page 5. |
| <i>Prüfbericht Test Report</i> | TR 80585-0016-01 ECS |
| <i>Nationale Bestimmung(en) National Standard(s)</i> | OVE EN 60598-1:2018-11-01 ÖVE/ÖNORM EN 60598-2-3:2012-01-01 |
| <i>Europannorm(en) European Standard(s)</i> | EN 60598-1:2015 + A1:2018 EN 60598-2-3:2003 + A1:2011 |
| <i>Ersatz für Zertifikat Superseded licence</i> | -- |
| <i>Anmerkung(en) Remark(s)</i> | CTF Stage 3. |

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Nennspannung
Rated voltage

max. DC 450 V
GP AL S, M: 350, 500, 700 or 1050 mA
GP AL L, XL: 350, 500 or 700 mA

Anzahl und Leistung der Lampen
Rated wattage and number of lamps

GP AL S:
1, 2, 3 or 4x LED module LEM R12 with 12 LEDs each

GP AL M, L, XL:
2, 4 or 6x LED module LEM R36 with 36 LEDs each

Lampentyp(en)
Lamp identification

LED modules LEM R12 or LEM R36

Schutzgrad
Degree of protection

IP66

Netzanschluss
Supply connection

Connector

Befestigungsfläche
Supporting surface

Normally flammable surface

Schutzklasse
Class of protection

CI.I

Beschreibung des Aufbaus
Description of construction

Luminaire for road and street lighting in four different sizes with different optics and remote gear boxes (to be ordered separately).

Size S with 12 to 48 LEDs (max. 1050mA)

Size M with 72 LEDs (1 or 2 channels, max. 1050mA)

Size L with 144 LEDs (max 700mA)

Size XL with 216 LEDs (2 channels, max. 700mA each)

Ceiling-mounting with specific brackets (to be ordered separately).

Enclosure: Toughened flat glass (fracture in small pieces)

Delivered without brackets and without gear box.

Zusatzinformation
Additional information

Classified as risk group 2 (moderate risk) according to EN 62471:2008.

The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 2 m is not expected.

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| <i>Bauteil Component</i> | <i>Code Code</i> | <i>Hersteller Manufacturer</i> | <i>Typenbezeichnung Type Reference</i> | <i>Konformitätszeichen Mark(s) of conformity</i> |
|------------------------------|----------------------|------------------------------------|--|--|
| <i>Connector</i> | A | Wieland | RST20i5 250/400V; max.20A; IP66 | VDE |
| <i>Internal Wiring</i> | A | BLF | SIL 100 300V; 180°C | VDE |
| | A | Omerin | RECSC 300V; 180°C; Double insulated | VDE |
| <i>LED module</i> | A* | THORN | RLE 12 500V; 1050mA; tc=105°C; RG2 | OVE |
| | A* | THORN | RLE 36 500V; 1050mA; tc=105°C; RG2 | OVE |

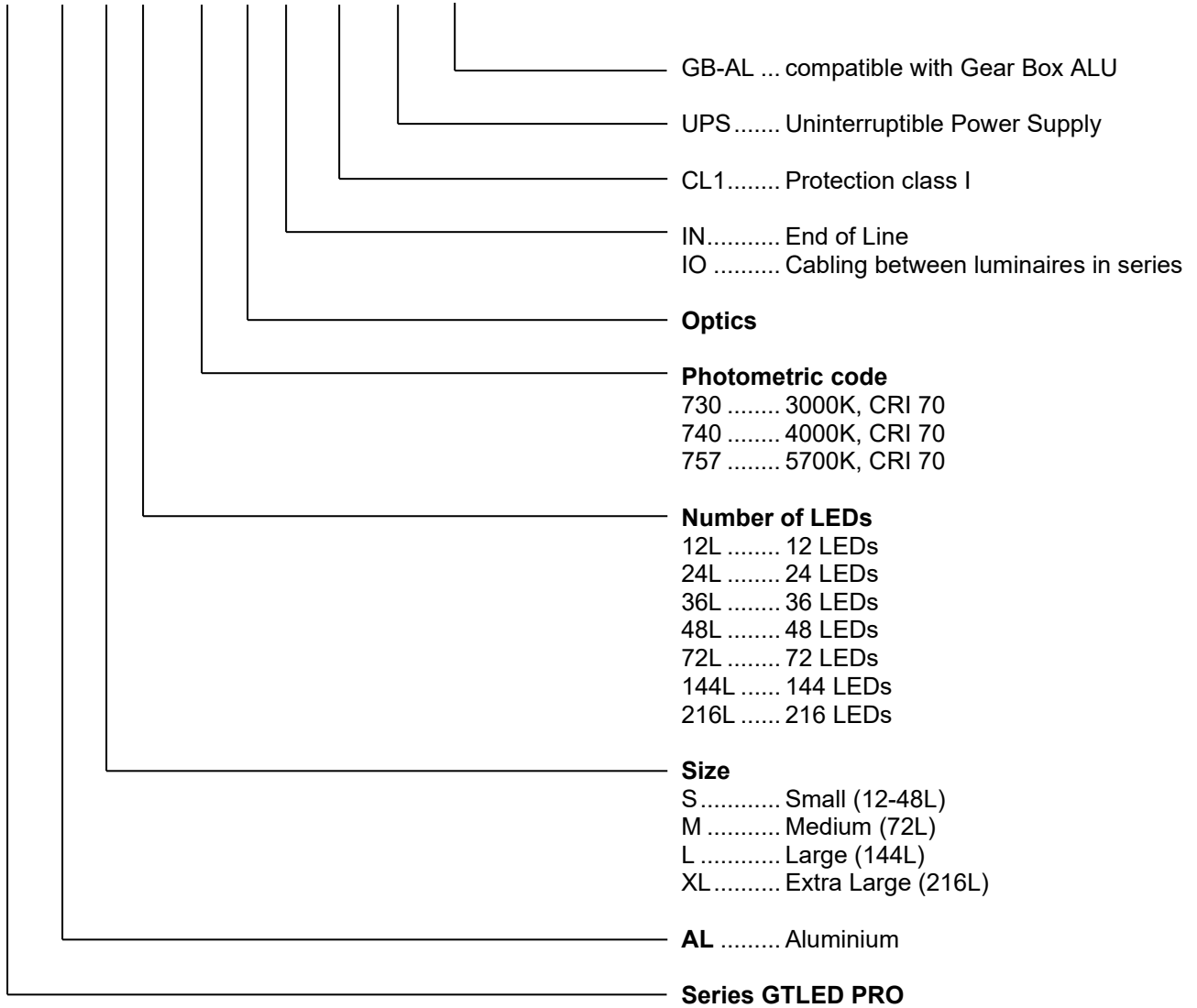
- A The component is replaceable with another one, also certified, with equivalent characteristics.
A* The component is replaceable with another one according to ETF5-OSM-LUM/DSH 2057
B The component is replaceable if authorised by the test house.
C Integrated component tested together with the appliance.
D Alternative component.

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Typecode:

GP ALL -... .. CL1



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