

# L550-XXX-G

## Medium intensity obstruction light

Obstacle light for day and night time marking of structures that present a hazard to aviation. White flashing in day and White flashing and/or Red/Infrared flashing/steady in night mode. Incorporates the benefits of advanced LED, optical and system control technologies to meet the most demanding applications.



### KEY FEATURES

- Five year warranty
- Housing based on 30 years of experience
- Lightweight and easy to install
- Extremely low wind factor
- Integrated design with build-in photocell and monitoring – no additional power supply enclosure required
- Optimised housing design minimizing the risk of coating damage during handling and installation
- No maintenance required over service life.
- Orga optical design produces highly accurate and uniform narrow light beam
- Integrated GPS based flash synchronization between lights, UTC 0.0.0.
- Extremely low power consumption
- Constant power draw – eliminates high peak power demands especially important when running from UPS
- 15 year field proven power supply technology
- Long life power supply to match LED life, does not use electrolytic capacitors
- Made in the Netherlands

### PERFORMANCE CHARACTERISTICS

- Horizontal beam pattern: 360°
- Vertical beam pattern: 3° minimum
- Intensity White/Red light: See table
- Infra-Red wavelength ~850nm
- Infra-Red beam follows visible light, or beam is according to local standards

### STANDARDS/ CERTIFICATION

- In compliance with CE
- Certified to ICAO Annex 14 Volume 1, Ninth Edition, July 2022, Chapter 6, Medium Intensity Type A/ B / C obstacle light
- Certified to French “Arrêté du 23 avril 2018 relatif à la réalisation du balisage des obstacles à la navigation aérienne”
- Certified to United States Federal Aviation Administration AC150/5345-43J, March 2019 including Engineering brief 67D
- Certified to AVV (German “General Administrative Regulation for the marking and lighting of obstacles to air navigation”) “Feuer W, rot”
- Certified to specific requirements for obstruction lights described in UK CAA CAP 393 article 220 (10 January 2015) and Policy Statement of November 2012 concerning lighting and marking of wind turbines in UK territorial waters
- Complies with The UK Air Navigation Order 2016, section 222
- Complies with CAP764 Policy and Guidelines on Wind Turbines Iss 6 Feb 2016
- Complies with UK MOD Requirements for Infrared light for windturbines
- Complies with Swiss AD I-006 D richtlinie\_Luftfahrthindernisse
- Complies with Lithuanian Standard, Marking of Obstacles 20200326Various national approvals available upon request

### PHYSICAL CHARACTERISTICS

- Dimensions: L x W x H: See drawing
- Weight: 12kg
- Design degree of protection: IP65
- Operating temperature range: -40 °C/+55 °C
- Shipping information: 550 x 550 x 400 mm; approx. 16 kg
- Supplied with pre-mounted Orga cable for easy installation and high reliability ready for use
- Cable bending radius static: 10x cable diameter
- Outer cable diameter: Ø12.5 +/- 0.5 mm
- Cable weight: 260 g/m
- Level indicators for correct mounting

### SYSTEM DESIGN, CONTROL AND MONITORING

- Use as a stand-alone light, or in a multiple light system with an Orga CIP controller
- Optional Orga CIP controller facilities provides control interfaces for:
- “smart switch” aircraft detection input
- Visibility condition variable intensity input
- Visibility condition variable intensity input; intensity steps 30% and 10%
- Remote photocell control input/override

### ELECTRICAL CHARACTERISTICS

- Available Operating voltages: 120-240Vac nominal 50-60Hz and 40-64 Vdc, see table
- Power consumption: See table, IR: ±1W
- Overvoltage protection: Class III according to IEC61643-1



# L550-XXX-G

Medium intensity obstruction light

| Product | Subtype             | Light Performance         |                           |                           | Operating voltage | Additional Information       |          |       |          |
|---------|---------------------|---------------------------|---------------------------|---------------------------|-------------------|------------------------------|----------|-------|----------|
|         |                     |                           |                           |                           |                   | Power consumption (W) @ 20°C |          |       | Standard |
|         |                     | Day                       | Twilight                  | Night                     |                   | Day                          | Twilight | Night |          |
| L550    | -63A/63B-G          | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 2.000 cd<br>20 FPM Red    | 120-240Vac        | 25                           | 25       | 13    | ICAO     |
| L550    | -63A/63B-40/40-G    | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | 2.000 cd<br>40 FPM Red    | 120-240Vac        | 41                           | 41       | 20    | ICAO     |
| L550    | -63A-G              | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 2.000 cd<br>20 FPM White  | 120-240Vac        | 25                           | 25       | 13    | ICAO     |
| L550    | -63C                | –                         | –                         | 2.000 cd<br>Steady Red    | 120-240Vac        | 5                            | 5        | 27    | ICAO     |
| L550    | -63B-G              | –                         | –                         | 2.000 cd<br>20 FPM Red    | 120-240Vac        | 5                            | 5        | 18    | ICAO     |
| L550    | -864/865-30/40-IR-G | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | 2.000 cd<br>30 FPM Red+IR | 120-240Vac        | 36                           | 36       | 17    | FAA      |
| L550    | -63A/63C-G          | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 2.000 cd<br>Steady Red    | 120-240Vac        | 25                           | 25       | 27    | ICAO     |
| L550    | -63A/63C-40/S-G     | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | 2.000 cd<br>Steady Red    | 120-240Vac        | 41                           | 41       | 29    | ICAO     |
| L550    | -63Ca               | 2.000 cd<br>Steady Red    | 2.000 cd<br>Steady Red    | 2.000 cd<br>Steady Red    | 120-240Vac        | 27                           | 27       | 27    | ICAO     |
| L550    | -63B-IR-G           | –                         | –                         | 2.000 cd<br>20 FPM Red+IR | 120-240Vac        | 5                            | 5        | 19    | ICAO     |
| L550    | -864-IR-G           | –                         | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR | 120-240Vac        | 5                            | 5        | 17    | FAA      |
| L550    | -864-30-54-IR-G     | –                         | 2.000 cd<br>30 FPM Red+IR | 2.000 cd<br>30 FPM Red+IR | 120-240Vac        | 5                            | 5        | 17    | FAA      |
| L550    | -865-G              | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | 2.000 cd<br>40 FPM White  | 120-240Vac        | 37                           | 37       | 9     | FAA      |
| L550    | -865-40-54-G        | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | 2.000 cd<br>40 FPM White  | 120-240Vac        | 36                           | 36       | 7     | FAA      |
| L550    | -63C-IR             | –                         | –                         | 2.000 cd<br>Steady Red+IR | 120-240Vac        | 5                            | 5        | 27    | ICAO     |
| L550    | -63A/63B-IR-G       | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 2.000 cd<br>20 FPM Red+IR | 120-240Vac        | 24                           | 24       | 19    | ICAO     |
| L550    | -63Ba-G             | 2.000 cd<br>20 FPM Red    | 2.000 cd<br>20 FPM Red    | 2.000 cd<br>20 FPM Red    | 120-240Vac        | 18                           | 18       | 18    | ICAO     |
| L550    | -IRM-G              | –                         | –                         | 60 FPM IR                 | 120-240Vac        | 6                            | 6        | 10    | MOD      |



# L550-XXX-G

Medium intensity obstruction light

| Product | Subtype         | Light Performance         |                           |                            | Operating voltage | Additional Information       |          |       |          |
|---------|-----------------|---------------------------|---------------------------|----------------------------|-------------------|------------------------------|----------|-------|----------|
|         |                 |                           |                           |                            |                   | Power consumption (W) @ 20°C |          |       | Standard |
|         |                 | Day                       | Twilight                  | Night                      |                   | Day                          | Twilight | Night |          |
| L550    | -63A-40-G       | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | 2.000 cd<br>40 FPM White   | 120-240Vac        | 42                           | 42       | 14    | ICAO     |
| L550    | -63CD           | –                         | –                         | 2.000 cd<br>Steady Red     | 120-240Vac        | 5                            | 5        | 27    | ICAO     |
| L550    | -63BD-G         | –                         | –                         | 2.000 cd<br>20 FPM Red     | 120-240Vac        | 5                            | 5        | 18    | ICAO     |
| L550    | -63B-ISA-H-IR-G | –                         | 2.000 cd<br>20 FPM Red+IR | 200 cd<br>20 FPM Red+IR    | 120-240Vac        | 5                            | 18       | 8     | ICAO     |
| L550    | -63B-ISB-H-IR-G | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR | 200 cd<br>20 FPM Red+IR    | 120-240Vac        | 18                           | 18       | 8     | ICAO     |
| L550    | -63B-ISA-IR-G   | –                         | 2.000 cd<br>20 FPM Red+IR | 200 cd<br>20 FPM Red+IR    | 120-240Vac        | 5                            | 18       | 8     | ICAO     |
| L550    | -63B-ISB-IR-G   | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR | 200 cd<br>20 FPM Red+IR    | 120-240Vac        | 18                           | 18       | 8     | ICAO     |
| L550    | -63C-IRa        | Steady IR                 | Steady IR                 | 2.000 cd<br>Steady Red+IR  | 120-240Vac        | 7                            | 7        | 27    | ICAO     |
| L550    | -864-30-IR-G    | –                         | 2.000 cd<br>30 FPM Red+IR | 2.000 cd<br>30 FPM Red+IR  | 120-240Vac        | 5                            | 18       | 18    | FAA      |
| L550    | -63Adt-G        | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | –                          | 120-240Vac        | 25                           | 25       | 7     | ICAO     |
| L550    | -865-ISC-G      | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | 2.000 cd<br>40 FPM White   | 120-240Vac        | 37                           | 37       | 11    | FAA      |
| L550    | -63Ba-IR-G      | 2.000 cd<br>20 FPM Red    | 2.000 cd<br>20 FPM Red    | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 18                           | 18       | 18    | ICAO     |
| L550    | -63Ca-IRa       | 2.000 cd<br>Steady Red+IR | 2.000 cd<br>Steady Red+IR | 2.000 cd<br>Steady Red+IR  | 120-240Vac        | 27                           | 27       | 27    | ICAO     |
| L550    | -GFW-ES-IRG1-G  | –                         | –                         | 2.000 cd<br>Feuer W Red+IR | 120-240Vac        | 5                            | 5        | 12    | AWV      |



# L550-XXX-G

Medium intensity obstruction light

| Product | Subtype            | Light Performance         |                           |                             | Operating voltage | Additional Information       |          |       |          |
|---------|--------------------|---------------------------|---------------------------|-----------------------------|-------------------|------------------------------|----------|-------|----------|
|         |                    |                           |                           |                             |                   | Power consumption (W) @ 20°C |          |       | Standard |
|         |                    | Day                       | Twilight                  | Night                       |                   | Day                          | Twilight | Night |          |
| L550    | -UK1-IRM-G         | –                         | –                         | 25 cd<br>60 FPM Red+IR      | 120-240Vac        | 6                            | 6        | 16    | MOD      |
| L550    | -UK1-G             | –                         | –                         | 25 cd<br>60 FPM Red         | 120-240Vac        | 6                            | 6        | 12    | MOD      |
| L550    | -UK2-G             | –                         | –                         | 200 cd<br>60 FPM Red        | 120-240Vac        | 5                            | 5        | 19    | MOD      |
| L550    | -GFW-ES-IRG2-G     | –                         | –                         | 2.000 cd<br>Feuer W Red+IR  | 120-240Vac        | 5                            | 5        | 12    | AVV      |
| L550    | -63A/63C-IR-G      | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 2.000 cd<br>Steady Red+IR   | 120-240Vac        | 25                           | 25       | 27    | ICAO     |
| L550    | -63A/63C-40/S-IR-G | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | 2.000 cd<br>Steady Red+IR   | 120-240Vac        | 42                           | 42       | 29    | ICAO     |
| L550    | -63A/63C-AA-IR-G   | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 2.000 cd<br>Steady Red+IR   | 120-240Vac        | 30                           | 30       | 29    | ICAO     |
| L550    | -63A/FR1-G         | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 2.000 cd<br>20 FPM Red      | 120-240Vac        | 25                           | 25       | 15    | STAC     |
| L550    | -63A/FR2-G         | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 200 cd<br>20 FPM Red        | 120-240Vac        | 25                           | 25       | 7     | STAC     |
| L550    | -FR2-G             | –                         | –                         | 200 cd<br>20 FPM Red        | 120-240Vac        | 5                            | 5        | 6     | STAC     |
| L550    | -63A-IR-G          | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | 2.000 cd<br>20 FPM White+IR | 120-240Vac        | 25                           | 25       | 13    | ICAO     |
| L550    | -63A/63C-30/S-G    | 20.000 cd<br>30 FPM White | 20.000 cd<br>30 FPM White | 2.000 cd<br>Steady Red+IR   | 120-240Vac        | 34                           | 34       | 27    | ICAO     |
| L550    | -63C-H-IR          | –                         | –                         | 2.000 cd<br>Steady Red+IR   | 120-240Vac        | 5                            | 5        | 27    | ICAO     |
| L550    | -63A/63B-30/30-G   | 20.000 cd<br>30 FPM White | 20.000 cd<br>30 FPM White | 2.000 cd<br>30 FPM Red      | 120-240Vac        | 34                           | 34       | 18    | ICAO     |
| L550    | -63A/63B-24/24-G   | 20.000 cd<br>24 FPM White | 20.000 cd<br>24 FPM White | 2.000 cd<br>24 FPM Red      | 120-240Vac        | 26                           | 26       | 18    | ICAO     |



# L550-XXX-G

Medium intensity obstruction light

| Product | Subtype            | Light Performance         |                           |                            | Operating voltage | Additional Information       |          |       |                   |
|---------|--------------------|---------------------------|---------------------------|----------------------------|-------------------|------------------------------|----------|-------|-------------------|
|         |                    |                           |                           |                            |                   | Power consumption (W) @ 20°C |          |       | Standard          |
|         |                    | Day                       | Twilight                  | Night                      |                   | Day                          | Twilight | Night |                   |
| L550    | -GFW-ES-150-IRG2-G | –                         | –                         | 2.000 cd<br>Feuer W Red+IR | 120-240Vac        | 5                            | 5        | 12    | AWV               |
| L550    | -63Adt-40-G        | 20.000 cd<br>40 FPM White | 20.000 cd<br>40 FPM White | –                          | 120-240Vac        | 41                           | 41       | 7     | ICAO              |
| L550    | -63B-H-G           | –                         | –                         | 2.000 cd<br>20 FPM Red     | 120-240Vac        | 5                            | 5        | 18    | ICAO              |
| L550    | -63Ba-IRa-G        | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 19                           | 19       | 19    | ICAO              |
| L550    | -63Ba-IRa-H-G      | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 19                           | 19       | 19    | ICAO              |
| L550    | -63C-ISD           | –                         | –                         | 200 cd<br>Steady Red       | 120-240Vac        | 5                            | 5        | 8.7   | ICAO<br>Australia |
| L550    | -63Btn-IRa-G       | 20 FPM IR                 | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 6                            | 19       | 19    | ICAO              |
| L550    | -63Btn-IRa-H-G     | 20 FPM IR                 | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 6                            | 19       | 19    | ICAO              |
| L550    | -FR1-4E-G          | –                         | –                         | 2.000 cd<br>20 FPM Red     | 120-240Vac        | 6                            | 6        | 22    | STAC              |
| L550    | -63Adt             | 20.000 cd<br>20 FPM White | 20.000 cd<br>20 FPM White | –                          | 120-240Vac        | 25                           | 25       | 7     | ICAO              |
| L550    | -63Adt-30          | 20.000 cd<br>30 FPM White | 20.000 cd<br>30 FPM White | –                          | 120-240Vac        | 41                           | 41       | 7     | ICAO              |
| L550    | -63Ba-IRFa-G       | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 19                           | 19       | 19    | ICAO<br>TraFi     |
| L550    | -63Ba-IRFa-H-G     | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 19                           | 19       | 19    | ICAO<br>TraFi     |
| L550    | -63Btn-IRFa-G      | 20 FPM IR                 | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 6                            | 19       | 19    | ICAO<br>TraFi     |
| L550    | -63Btn-IRFa-H-G    | 20 FPM IR                 | 2.000 cd<br>20 FPM Red+IR | 2.000 cd<br>20 FPM Red+IR  | 120-240Vac        | 6                            | 19       | 19    | ICAO<br>TraFi     |
| L550    | -SML-40-IRM-G      | –                         | –                         | 200 cd 40 FPM RED +<br>IRM | 120-240Vac        | 5                            | 5        | 23,5  | Swiss             |



# L550-XXX-G

Medium intensity obstruction light

| Product | Subtype         | Light Performance         |                           |                                     | Operating voltage | Additional Information       |          |          |                    |
|---------|-----------------|---------------------------|---------------------------|-------------------------------------|-------------------|------------------------------|----------|----------|--------------------|
|         |                 |                           |                           |                                     |                   | Power consumption (W) @ 20°C |          | Standard |                    |
|         |                 | Day                       | Twilight                  | Night                               |                   | Day                          | Twilight | Night    |                    |
| L550    | -63Ctn-IRM-60-G | -                         | 2000 cd<br>Steady Red     | 2000 cd<br>Steady Red<br>+60 FPM IR | 120-240Vac        | 6                            | 25       | 31       | ICAO<br>CAA<br>MOD |
| L550    | -63Ba-30-IRMa-G | 2.000 cd<br>30 FPM Red+IR | 2.000 cd<br>30 FPM Red+IR | 2.000 cd<br>30 FPM Red+IR           | 120-240Vac        | 30                           | 30       | 30       | ICAO<br>Lithuania  |
| L550    | -63B-30-IRM-G   | -                         | -                         | 2.000 cd<br>30 FPM Red+IR           | 120-240Vac        | 6                            | 6        | 30       | ICAO<br>Lithuania  |

Notes

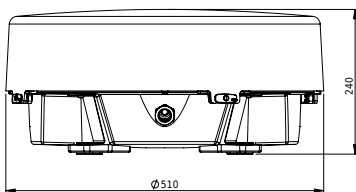
- \* Subtypes with G in the name are including GPS functionality
- \*\* Subtypes with H in the name are including heater (de-icing) functionality (only active i.c.w. RED or RED + IR)
- \*\*\* Heater active; <10°C >0°C, 50% duty cycle 20 Watts average, in addition to the nominal power consumption
- \*\*\*\* Heater active; <0°C, 100% duty cycle 40 Watts average, in addition to the nominal power consumption



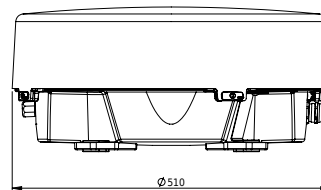
# L550-XXX-G

Medium intensity obstruction light

FRONT VIEW



LEFT VIEW



BOTTOM VIEW

