

RTCH864GPS

FAA L-864 / ICAO Type B Medium Intensity Obstruction Light

Rev. 2.0 – 19 November 2018

Product Datasheet

General Description

The RTCH864GPS is a medium intensity FAA L-864 / ICAO Type B obstruction light that features a built-in GPS antenna and an ambient light sensor. This all-in-one design reduces to a bare minimum the quantity of additional devices that need to be installed separately thus simplifying wiring to the unit.

The integrated high gain active GPS antenna ensures proper flashing characteristics, making this product especially suited for installation on wind turbines.



Key Features

- An interleaved array of high intensity LEDs provide longer service life by permitting the loss of individual LEDs.
- Lightweight yet durable unit made of aluminum for better resistance.
- Versatile mounting options using the provided holes or by means of a thread located at the bottom.
- All-in-one solution which includes a built-in GPS high gain antenna and ambient light sensor.
- Circular vial for easy installation.
- UV resistant optics and antenna radome.
- Low power consumption.
- No maintenance required over service life.
- Three year limited warranty.

Certifications

- ICAO Annex 14, volume I; International standards and recommended practices: Aerodrome design and operations, 6th Edition, July 2013, Chapter 6.
- Federal Aviation Administration AC 70/7460-1L; Obstruction Marking and Lighting, October 2016.
- Administración Nacional de Aviación Civil C-090-001-2015; Circular Técnica de Balizamiento, May 2015.

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Electrical Characteristics

- Input Voltage: 24 VDC \pm 10%.
- Power Consumption: 30 W at 30 FPM.
- Ambient Light Sensor Input Voltage: 12 VDC.
- GPS Antenna Input Voltage: 5 VDC.

Physical Characteristics

- Weight: 7 kg.
- Operating Temperature Range: -40°C to +55°C.
- Storage Temperature Range: -55°C to +55°C.
- Relative Humidity: 95%.
- Structure Material: aluminum.
- Optics Material: UV resistant acrylic.

Photometric Characteristics

Figure 1. Photometric results at -1.5° vertical

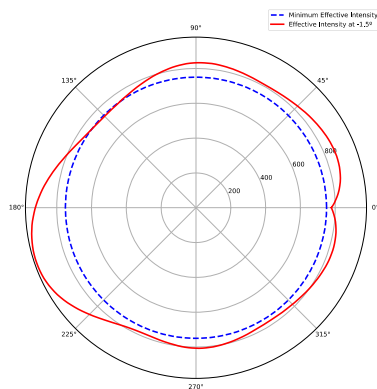


Figure 2. Photometric results at +1.5° vertical

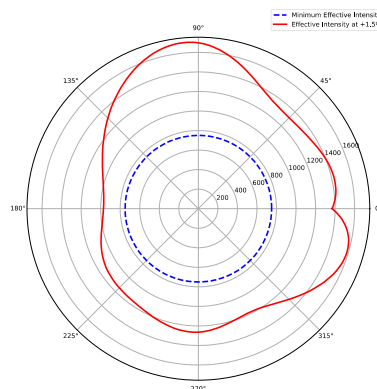
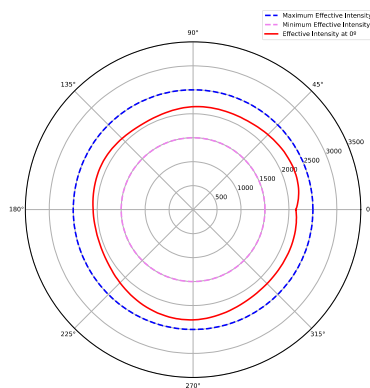


Figure 3. Photometric results at 0° vertical



Dimensions

Figure 4. Side View

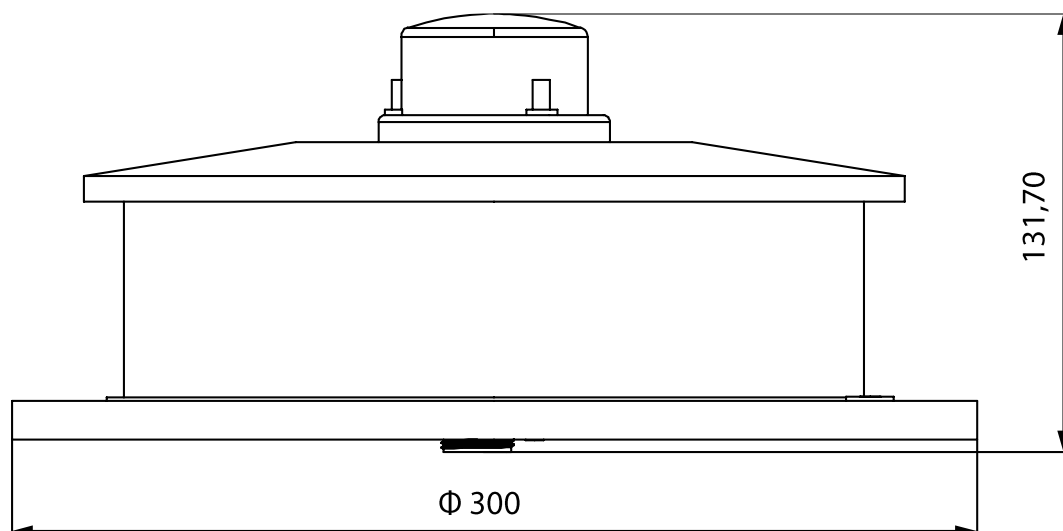


Figure 5. Top View

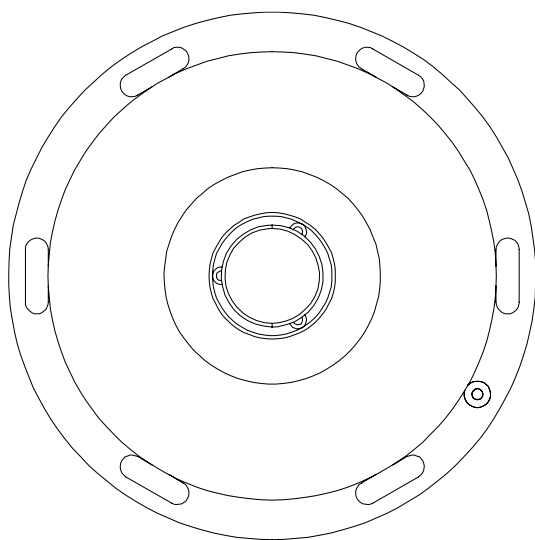
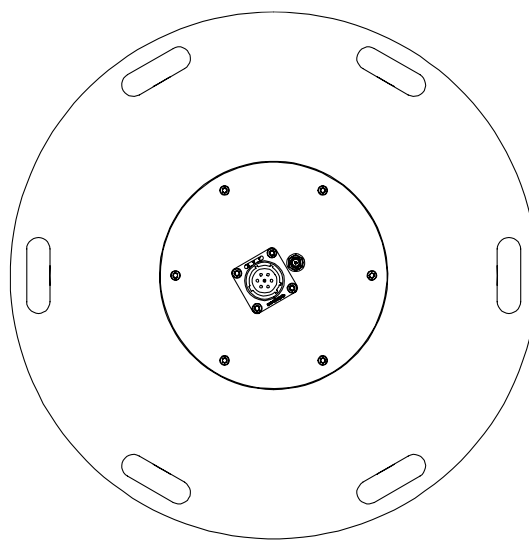


Figure 6. Bottom View



(*) All measurements are in millimeters [mm].