



Signalight

Safely guiding
your way.

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part of



 **Signalight**



OBSTRUCTION LIGHTING SYSTEMS

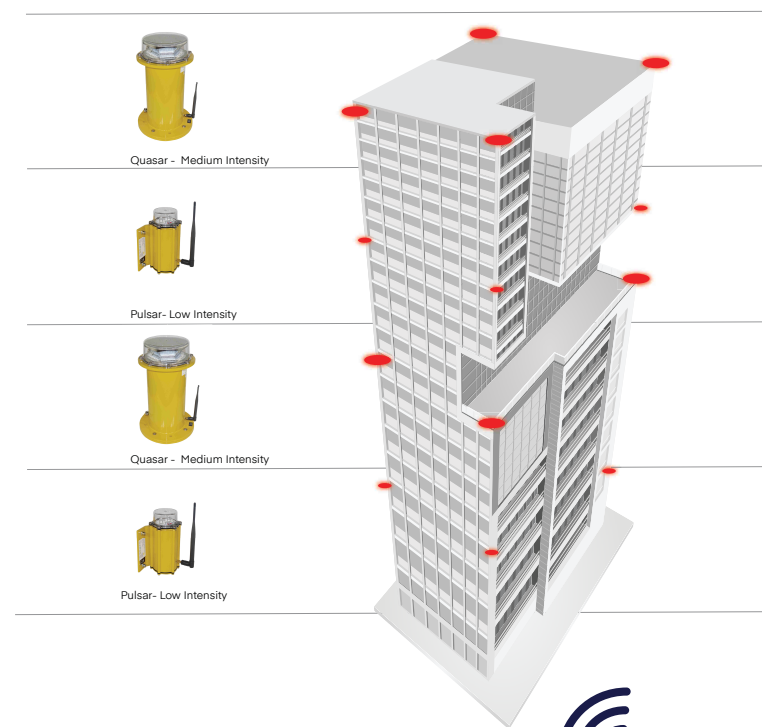
Low and Medium Intensity
Lighting, Power Supplies or
Photovoltaic Panel Systems for
vertical obstacle marking.

GO BEYOND

Radio Obstruction System



- monitor & control the lights within a **1000m radius**.
- no need to run individual cables from every obstruction light in the system to the controller.
- a data request is sent to every lamp in the system every 10 seconds. The interrogated lamps communicate the status back to the controller (i.e. if there are LED failures or not).
- a synchronization signal is sent to all the lamps in the system in order to keep the flashes synchronized every 10 minutes
- the controller communicates the running Day or Night Mode every 10 minutes
- the operating radio frequency is 868Mhz



Twilight Switch: The cabinet is equipped with a photocell with 9 sensitivity levels (100lx - 900lx). The Sensitivity is set from a button on the front panel. Based on the photocell, the change is made from day mode to night mode and vice versa.



The **Flashing** function ensures intermittent lighting with a certain frequency and a certain duration of the light beam. The controller sends a radio synchronization signal to the beacons every 10 minutes or when switching from day mode to night mode (and vice-versa).



Redundancy is a second obstruction light system which comes into operation when the principal has a fault.



Failure alarm is a warning system that activates when there is a fault in a light obstruction system. Every 10 seconds, each beacon is interrogated; the beacon responds and sends back any operating errors (if present).



Radio Obstruction Light Controller

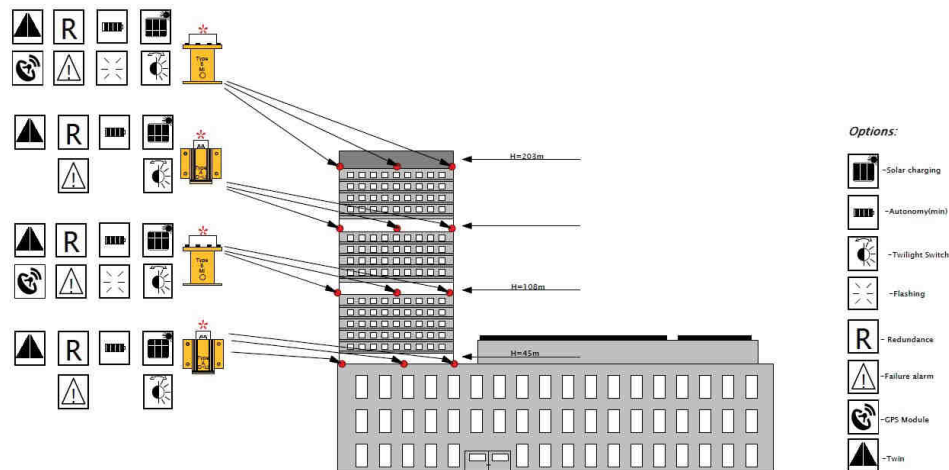


Obstruction Lighting System

In order to increase safety, our obstruction lighting systems may include twilight sensors and fault monitoring devices.

Our team will help you choose the optimal placement configuration for your needs, making sure that the system complies with the applicable regulations.

All Medium Intensity obstruction lights come with photocells to automatically switch between daytime mode and nighttime mode (ON/OFF switch for types A, B & C; flashing white / steady red switch for A/C type).



About us

Signalight is an international designer and manufacturer of lighting solutions such as heliport, airport, obstruction, and portable lighting systems.

Signalight is part of **Electro Max**, an important manufacturer of LED-based lighting, offering high-quality products. The company's headquarters are located in Petrosani, a picturesque town in Romania, in a modern facility with more than 50 employees.

Why us?

Our customizable systems come with exceptional value through a carefully thought set of services, aimed to assist you at every step: design, manufacturing, system setup, testing, validation, operation, and maintenance.

We ensure flexibility and full technical support for integrating our solutions or even manufacturing lighting products according to customer requirements. Electro Max manufactures complete Low and Medium Intensity LED Obstruction Lighting Systems, powered from the mains or in low voltage, from solar power systems. We fabricate and supply obstacle lighting systems for towers, obstacle lights, aviation warning lights, wind turbines obstacle marking.

Quality

Our products have unique features and have proven their worth in some of the world's toughest conditions. Electro Max is an authorized OSRAM manufacturer which has integrated successfully several management systems like ISO 9001, ISO 14001, OHSAS 18001. Our products comply with all ICAO, FAA standards, and European directives, are manufactured in the EU, and come with an CE Declaration of Conformity.

Mission & Vision

Our mission is to make every product better than any other in its class. Our policies on innovation and development guide us to smarter, safer, and more sustainable choices for you.

PULSAR - Low Intensity



Available in 4 configurations:

- Low Intensity **Type A Single**: 1 LED; >10cd luminous intensity
- Low Intensity **Type A Double**: 2 LEDs; LED 1 active and LED 2 for back-up
- Low Intensity **Type B Single**: 3 LEDs; >32cd luminous intensity
- Low Intensity **Type B Double**: 2 LEDs; LED 1 active and LED 2 for back-up

- 100-260 V AC 50/60 Hz
- 48 V DC; 24 V DC; 12 V DC
- 700 mA - constant current from Fault Management System

QUASAR - Medium Intensity



Available in 4 configurations:

- Medium Intensity **Type A**: flashing white light, used for signalling aerial obstacles by day >20,000cd luminous intensity and >2000cd by night
- Medium Intensity **Type B**: flashing red light, used for signalling aerial obstacles by night >2,000cd luminous intensity
- Medium Intensity **Type C**: steady red light, used for signalling aerial obstacles by night >2,000cd luminous intensity
- Medium Intensity **Type A/C**: integrates the lighting characteristics of Type A and Type C

The obstruction light fixture can be powered from completely different sources, as follows:

- mains (110- 260VAC, 50- 60Hz)
- 12VDC, 24VDC (solar panel systems)
- 48VDC

Our obstruction lighting systems can come together with different mounting devices, solar-powered modules and control systems.

Solar Panel System



The solar panel system is designed for situations where it is difficult or impossible to power the obstruction light system from the mains. The system can be configured according to geographic position and necessity in order to optimize the efficiency of the photovoltaic panel.



System Configuration Options

- Operating voltage: 12 V DC, 24 V DC, 48 VDC
- Solar panel power output: from 30W up to 200W
- Charger / Control unit type: standard or MPPT
- Battery capacity: from 30Ah up to 200Ah

Using this configurable solar power system, the following types of beacons can be powered:

- Low Intensity obstruction light type A Single or Double - 1.5Wh, type B Single or Double - 3Wh
- Group of low intensity obstruction lights type A or type B, Single or Double
- Medium Intensity obstruction light type A - flashing white light - 30Wh, type B - flashing red light - 15Wh

Power Supply



Electrical cabinets intended for powering, protecting and controlling the obstruction lights, low and medium intensity.

Options:

- redundancy
- synchronized
- alarming
- integrated twilight sensor
- GPS synchronized
- incorporated UPS
- dual power source: solar/230VAC



Settings:

- adjustable twilight sensor
- adjustable flashing frequency