

TECHNICAL DATA SHEET (EN)

STROBES / NAVIGATION / POSITION

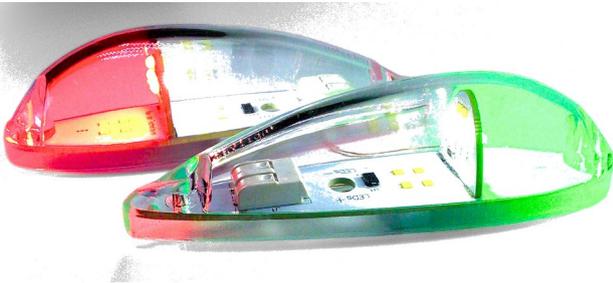


3 Lenses available : Basic, Mini, Beacon

 <p>THE MOST POWERFUL 20,000 LUMENS</p>	 <p>NO RADIO INTERFERENCE</p>	 <p>LOW CURRENT DRAIN</p>
 <p>FOR ALL AIRCRAFT</p>	 <p>VERY LIGHT</p>	 <p>WATER AND DUST RESISTANT</p>

1. Product Information

1.1. Description

	<p>HEMERA - 3 light devices Anti-collision Strobe / Navigation / Position:</p> <ul style="list-style-type: none"> - 1 red Nav + white Position + white Strobe - 1 green Nav + white Position + white Strobe - 1 white Strobe <p>2 possible lens configurations: 2 Basic + 1 Beacon or 2 Mini + 1 Beacon</p>
	<p>HERMES - 2 light devices Anti-collision Strobe / Navigation / Position:</p> <ul style="list-style-type: none"> - 1 red Nav + white Position + white Strobe - 1 green Nav + white Position + white Strobe <p>2 Lenses available: 2 Basic or 2 Mini</p>
	<p>HERA - 1 light device Anti-collision Strobe:</p> <ul style="list-style-type: none"> - 1 white Strobe <p>2 Lenses available: 2 Basic or 2 Beacon</p>
 <div style="display: flex; justify-content: space-around; margin-top: 10px;"> Mini Basic Beacon </div>	

1.2. Limitations

- Temperature range: -40° to 60° Celsius.
- Voltage must not exceed 20 V.
- Wire cross-section must be 0.35 to 0.75 mm²; 0.5 mm² is recommended.
- Ensure that the wires used are in good condition: neither cut nor damaged.
- Connectors require wire stripping with a suitable tool.
- Please follow the instructions and the order in the assembly instructions
- Place the entire device more than one meter away from flammable or explosive materials (fuel tanks or hoses).

The generator must be protected from:

- Humidity: an environment with a humidity level below 80%
- Water: an environment protected from rain, watering, etc.
- Strong mechanical stress: vibrations, shocks, etc.

During transport/storage/installation, do not impact, shock, or drop the generator.

The lighting device must be installed according to the following conditions:

- The wires must pass through the foam inserts to ensure a watertight seal.
- The polarity "LEDs + LEDs -" must be respected.
- Tightening must be just enough to compress the foam to ensure the light device is watertight. Screw until the lens makes contact with the support, without further tightening.

If the device is purchased without the lens, Raylight Technologies disclaims all liability.

- **Only power the generator if all LEDs are connected.**
- **Do not view the strobe while in operation from within 1 meter.**
- **Use for with non-certified aircraft only.**

Raylight Technologies does not guarantee its products outside of these limitations and is not responsible for the installation of the device. Raylight Technologies recommends using professional installation.

1.3. Dimensions

HERA single Generator	HERMES HEMERA double - triple Generator
<p>Technical drawing of the HERA single Generator. The top view shows a rectangular plate with a width of 59 and a height of 48. It features four mounting holes at the corners and a central vertical slot. A dimension of 2 is shown for the offset of the bottom edge. The front view shows a total height of 88, with a main section of 67. It has two mounting holes at the top, spaced 29 apart, and two at the bottom, spaced 5 apart.</p>	<p>Technical drawing of the HERMES HEMERA double - triple Generator. The top view shows a rectangular plate with a width of 59 and a height of 48. It features four mounting holes at the corners and a central vertical slot. A dimension of 2 is shown for the offset of the bottom edge. The front view shows a total height of 115, with a main section of 101,5. It has two mounting holes at the top, spaced 29 apart, and two at the bottom, spaced 5 apart.</p>

BASIC LENS	MINI LENS

BEACON LENS		

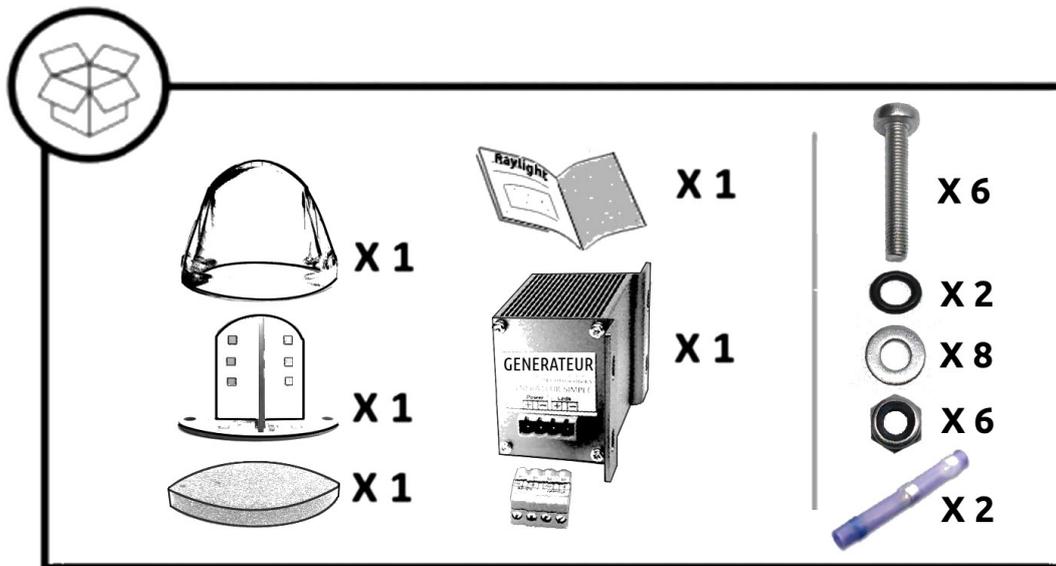
1.4. Features

	HERA	HERMES	HEMERA
Lumens	20 000	20 000 x 2	13 300 x 3
Candelas	1 900	1 900 x 2	1 267 x 3
Ampere	0,4	0,4 + 0,65	
Volts	10 - 16		
Electrical protection	Power surges, reverse polarity, disconnected or shorted LEDs		
Frequency of synchronized flashes per minute	47		
Lens type	Anti-UV polycarbonate		
Total weight g	235	380	425
Generator weight g	190	290	
Fasteners	Provided		
Generator electrical connection	Screw terminal block provided		
Wire cross-section mm ² AWG	0,35 à 0,75 18 à 22		

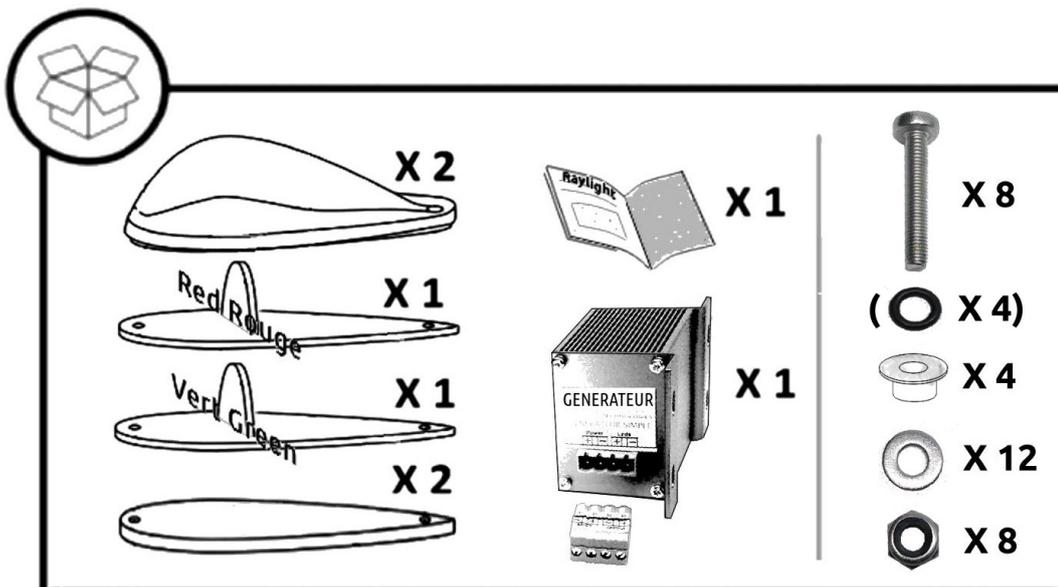
2. Installation Manual

2.1. Inventory

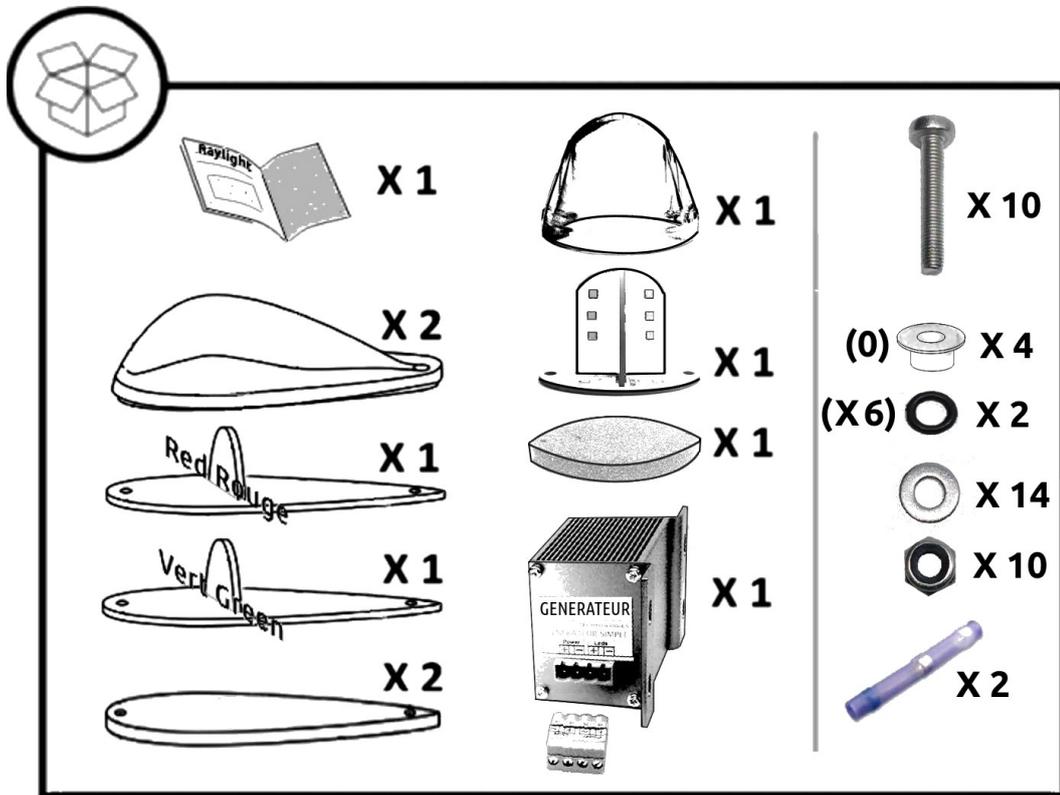
2.1.1 HERA



2.1.2 HERMES

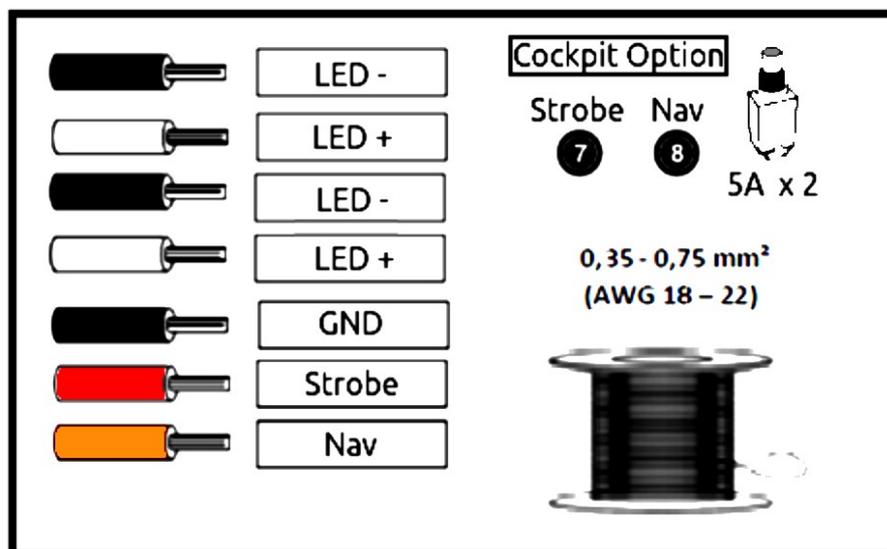


2.1.3 HEMERA



2.1.4 Not included

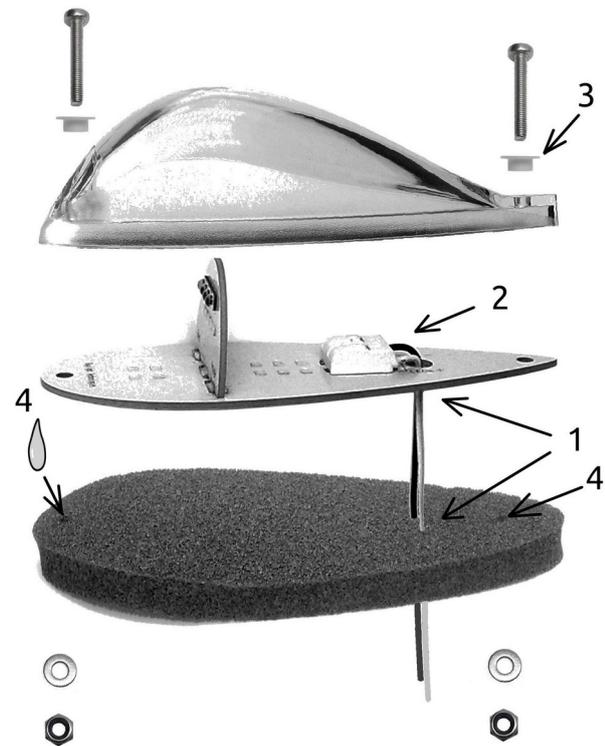
Wires and circuit breaker are not included.



2.2. Strobes Assembly

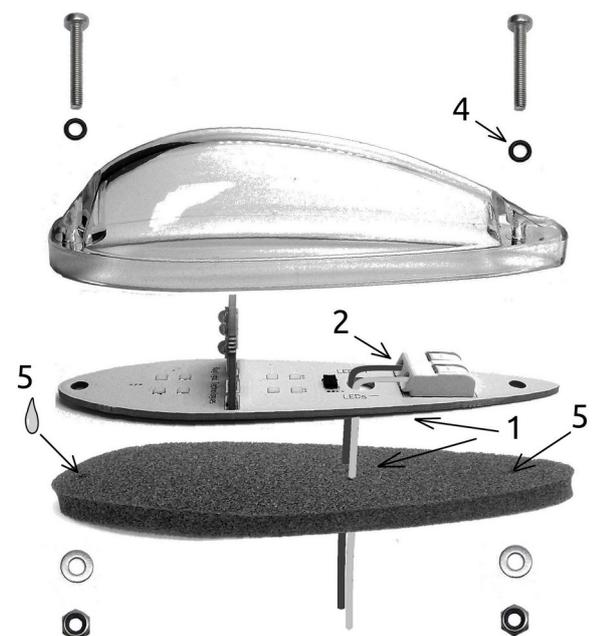
BASIC

- Insert the two wires into the holes in the foam and the LEDs board (1).
- Connect the green or white wire to the + LED and the black wire to the - LED (2).
- Insert the M3 screws and PTFE shoulder washers (3).
- If necessary, place a drop of dish soap or soapy water into the holes in the foam to allow the screws to turn freely (4).
- Place the strobe assembly in the intended location and insert the washers and nuts. Screw in until the lens is flush with the mount, but do not overtighten.



MINI

- Insert the two wires into the holes in the foam and the LED board (1).
- Connect the green or white wire to the + LED and the black wire to the - LED (2).
- Insert the M3 screws and O-rings (4).
- If necessary, place a drop of dish soap or soapy water into the holes in the foam to allow the screws to turn freely (5).
- Place the strobe assembly in the designated location and install the washers and nuts. Screw in until the lens is flush with the mount, but do not overtighten.

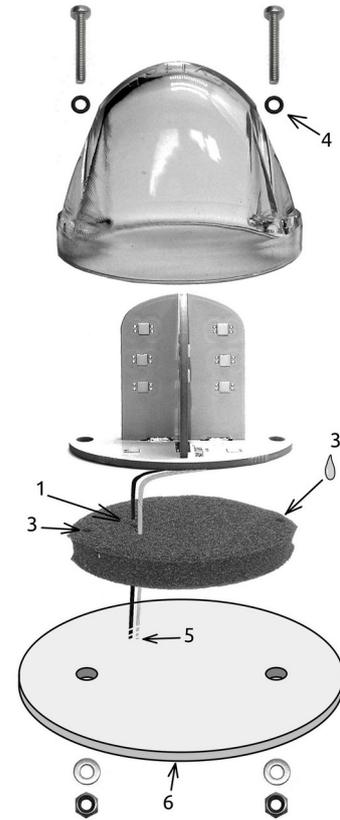


BEACON

- Insert the two wires into the holes in the foam, preferably opposite the welds (1).
- Place the M3 screws and O-rings (4).
- If necessary, place a drop of dish soap or soapy water in the holes in the foam so that the screws can turn freely (3).
- Connect the Beacon wires (5) to the wires of your device, for example, using heat-shrink sleeves.
- Position the strobe assembly in the designated location, place the washers and nuts. Screw until the lens touches the mount, without further tightening.

Optional: Replacing an old strobe:

- Position the strobe assembly on the 63 mm plate (6), place the washers and nuts. Screw until the lens touches the mount, without further tightening.
- Install the strobe with the new gasket and the collar from the old strobe. If necessary, the plate can be drilled, filed or re-cut.



63mm collar from an old Strobe to keep.

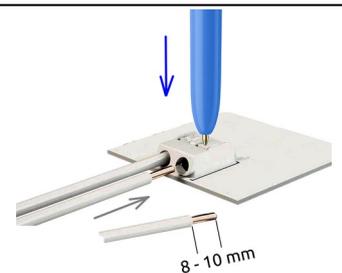


Heat shrink sleeves

- Strip the wires about 5 mm.
- Cross the stripped section over the solder ring.
- Heat with a heat gun until the solder is melted.



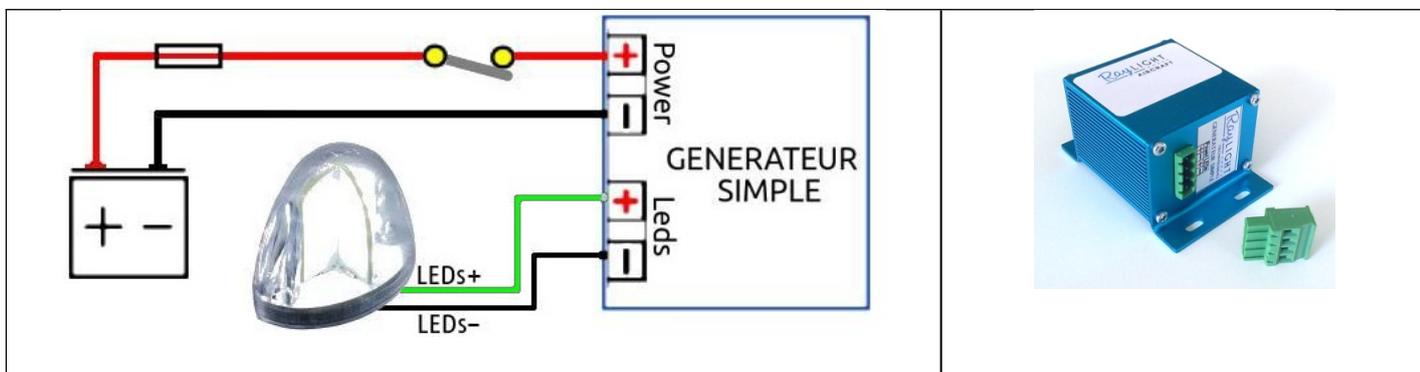
Connection to terminal block (2)



2.3. Generator Installation

2.3.1. HERA - One light device

Insert the wires into the corresponding holes in the terminal block and screw: the black wire to LEDs -, the green wire to LEDs +, the black wire to Power - (GND) the red wire to Power + (+12V) via a switch and a fuse or circuit breaker.



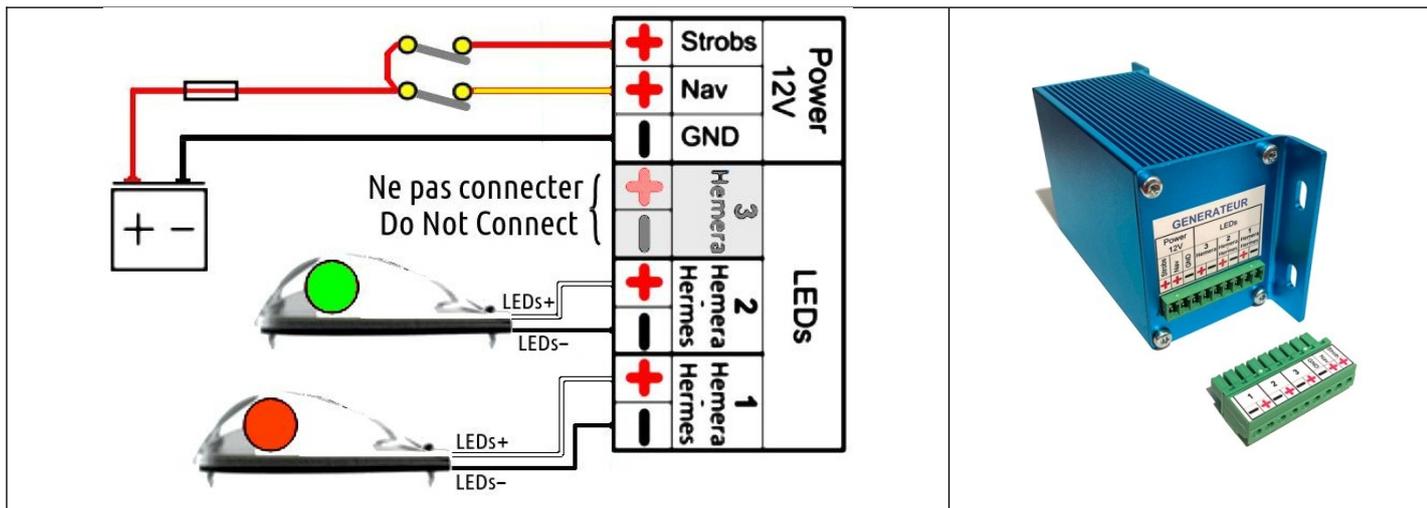
Note 1: LEDs - and Power - are connected internally in the generator.

2.3.2. HERMES - Two light devices

Connect the Power, LEDs 1, and LEDs 2:

Insert the wires into the corresponding holes in the terminal block and tighten the screws. Connect:

- the White wires to LEDs + 1 and 2
- the Red wire to Power 12V Strobe and the Orange wire to Power 12V Nav via one or two switches, a fuse, or a circuit breaker
- the Black wires to LEDs - 1 and LEDs - 2
- the Black wire to Power - GND



Note 1: LEDs - and Power - are connected internally within the generator.
Note 2: Do not connect LEDs 3.

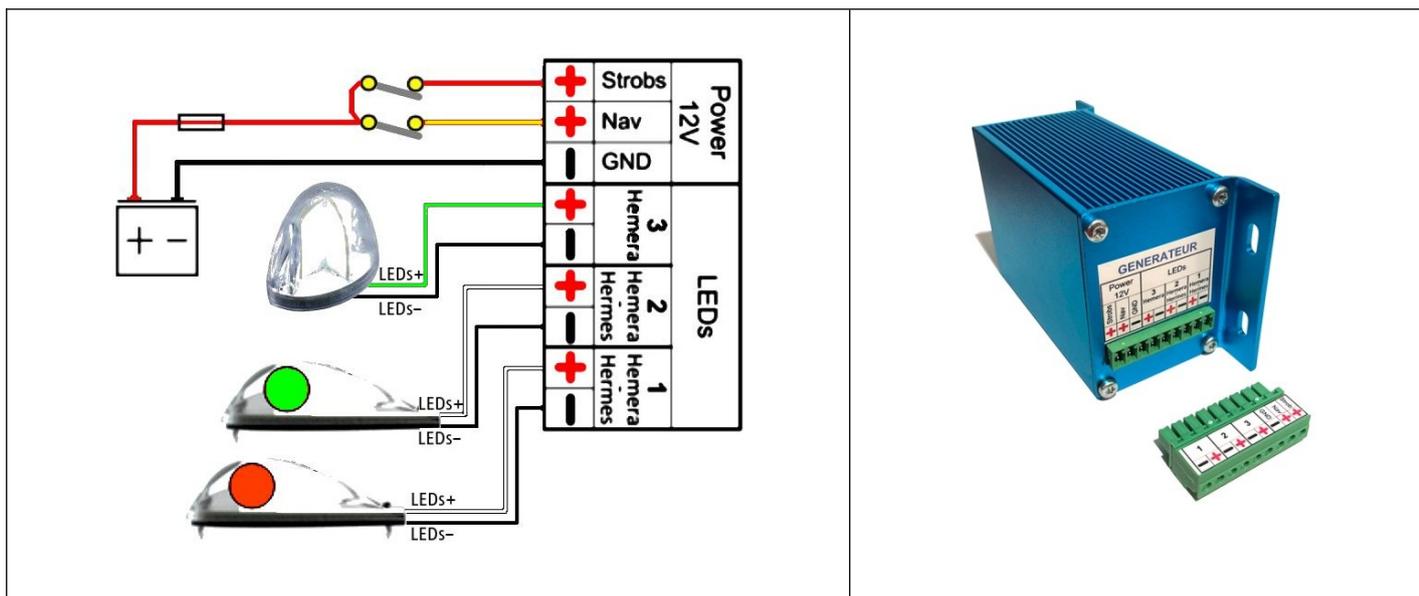
2.3.3. HEMERA - Three light devices

Connect the Power, LEDs 1, LEDs 2, and LEDs 3:

Insert the wires into the corresponding holes in the terminal block and screw them in place.

Connect:

- White wires to LEDs + 1 and 2
- Green wire to LEDs + 3
- Red wire to Power Strobs + (+12V)
- Orange wire to Power Nav + (+12V)
- Black wires to LEDs - 1, 2, and 3
- Black wire to Power GND -



Note 1: LEDs - and Power - are connected internally within the generator.

Note 3: Wire colors are provided for reference only.
Raylight can supply the wires as an option.

3. Other information

- For any information, please contact:

RAYLIGHT TECHNOLOGIES
Aérodrome du VERSOUD
1 rue Albert Girard Blanc
38420 LE VERSOUD
France

email: contact@raylight.fr

- Our Frequently Asked Questions (FAQ) section is available on our website.
www.raylight.fr

Declare a non-conformity

You can report a non-conformity by returning this completed form to us .

Last Name*	First Name*	
Phone Number*	Email*	
Postal Address*	Country*	
Company*		
Hho made the sale* ?	Has the product been subjected to any shocks or impacts* ?	
Product concerned*		
Invoice or delivery number*		
When did you notice the non-conformity*?	Date noted*	
Comment* Please detail the conditions under which you used the device.		
Locality*	Date*	Signature*

I certify that my statement is correct.

Fields marked with an asterisk (*) are required.

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