

# M130 S Gyroled® ISO MOUNTING 35048

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ENGLISH

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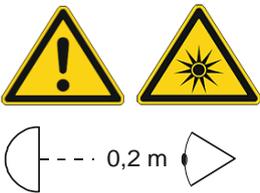
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## Safety Instructions

	<p><b>OPTICAL RADIATION WARNING</b> All optical components are classified as low risk according to DIN EN 62471. Never stare at the GYROLED® while it is in operation to avoid any risk of eye damage due to prolonged exposure of the retina to light beams. A minimum distance of 20 centimeters between the eye and the beam must be maintained.</p>
	<p>The installation of the GYROLED® M130 on the vehicle must be carried out in compliance with the regulations in force concerning special lights for intervention and service vehicles in the countries in which it is used. The choice of the operating mode of the light must also meet these requirements. The installer is therefore solely responsible for the installation of the product.</p>
	<p>Handle GYROLED M130® with the usual precautions. Wearing gloves is recommended to avoid any risk of cuts and scratches on the hands during installation.</p>
	<p>Do not handle the GYROLED® M130 immediately after use as the aluminium base may still be hot. There is a risk of burning your hands.</p>
	<p>It is essential that the GYROLED®'s wiring path to the interior of the vehicle is sealed. The use of a sealing compound is recommended.</p>

## Exclusion of liability (EN)

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### LIMITATIONS OF LIABILITY

The products have been developed in accordance with the applicable standards and regulations. The information gathered in the technical documentation takes into account the state of the art, knowledge and experience gained over the years.

MERCURA is not responsible for damages and consequences due to:

- Failure to comply with the information contained in the product documentation.
- Improper use of the product
- The installation of products by unqualified personnel
- Unauthorized changes made by the user or operator
- Technical Modifications not submitted to or approved by MERCURA
- The use of spare parts not approved by MERCURA

### INSTALLER'S RESPONSIBILITIES

The installer is entirely responsible for installing the equipment on a vehicle.

The installer must define the means and material necessary for the installation of the equipment in order to deliver the vehicle equipped in accordance with the regulations.

MERCURA is not responsible for defects caused by incorrect definition of the mounting system, reinforcements, holes in the roof or roofliner, the condition and quality of the mounting system, the use of anchorage points provided by the vehicle manufacturer and the definition of the power supply and protection of the system according to the power source of the vehicle.

### RESPONSIBILITIES OF THE USER AND THE OPERATOR

MERCURA products are professional devices that can only be used for this purpose. Their use is subject to legal obligations regarding safety in the workplace, which the operator must comply with. The same applies to safety and accident prevention regulations as well as environmental protection regulations. The use of this equipment on the road is subject to the traffic regulations and rules.

Obligations of the operator:

- Find out about the applicable occupational safety regulations
- Carry out a risk analysis related to the specific working conditions on the intervention site
- Train users on regulations, standards and conditions of use
- When using the device, regularly check the suitability of the implementation rules in relation to the applicable safety rules and standards.
- Make sure that the operator has read and understood the equipment operating manual.
- Ensure that users are regularly trained in its use and informed of the dangers related to the implementation of the equipment.
- Provide personnel with protective equipment suitable for the intervention and ensure its use.

It is the responsibility of the operator:

- To ensure the curative and preventive maintenance of the equipment
- Ensuring that safety devices are checked regularly.

### USING COMPLIANCE

Appropriate use

- The flashing light is intended for use on vehicles with 12 V or 24 V on-board voltage.
- When used in public road traffic, the legal regulations must be observed.

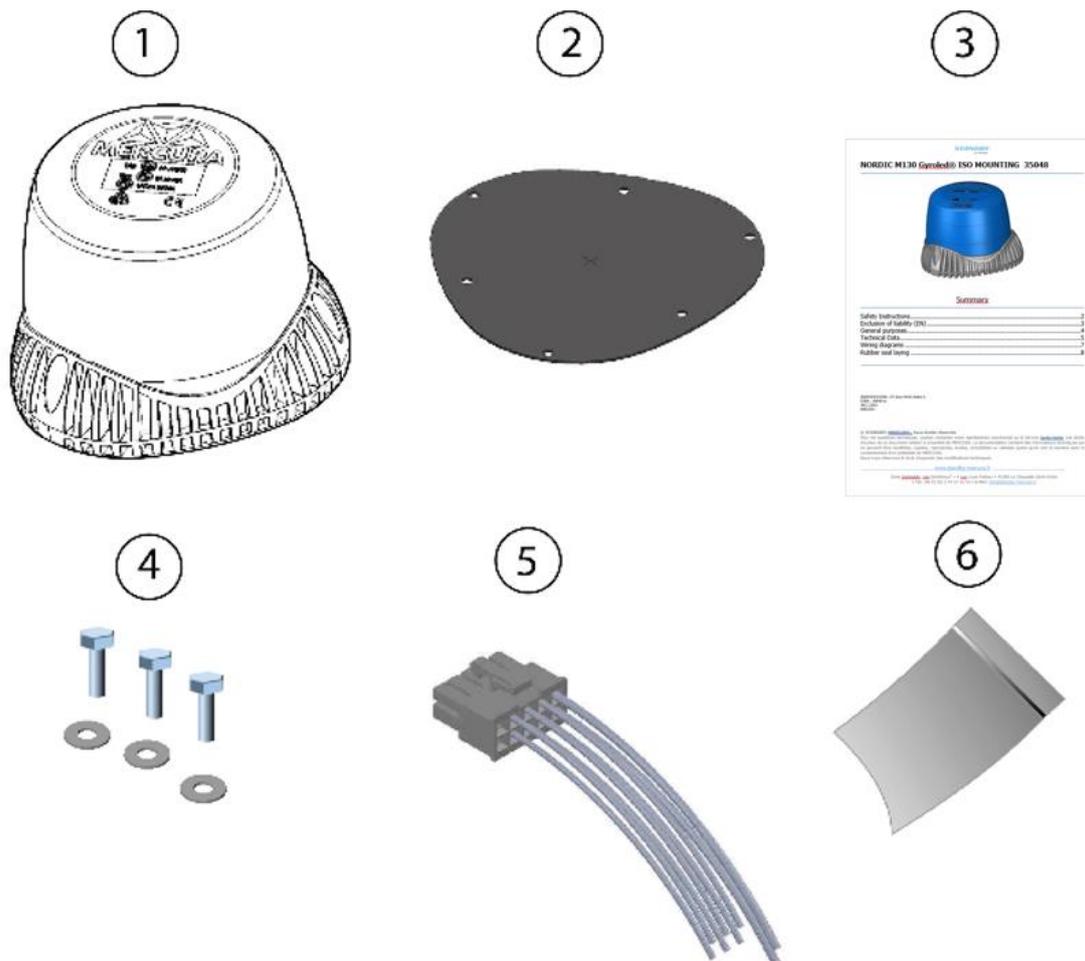
### **AFTER-SALES SERVICE**

The **AFTER-SALES SERVICE** is at your disposal for any technical information:

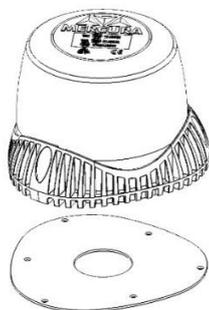
- **Website:** <http://www.mercura.fr>
- **Email :** [support@mercura.fr](mailto:support@mercura.fr)
- **Phone :** +33 (0)2 54 702 702

**In a way of continuous improvement, our employees are available to answer any questions you may have regarding the installation and use of our products.**

## General purposes



1. REFERENCE ACCORDING TO COLOUR
2. 29637 - PROTECTIVE SEAL
3. 35032- USER MANUAL
4. STAINLESS STEEL SCREW H M06x16 (x3) & FLAT WASHER (x3)
5. 30024- M130 WIRING LOOM (x1)
6. 16782 - NYLON BAG (x1)



The GYROLED® M130 S STANDBY-MERCURA is a CLASS 2 very high-performance LED BEACON. The beacon has 3 integrated operating modes : R65 Rotating / R65 Double-Flash / R65 Triple Flash

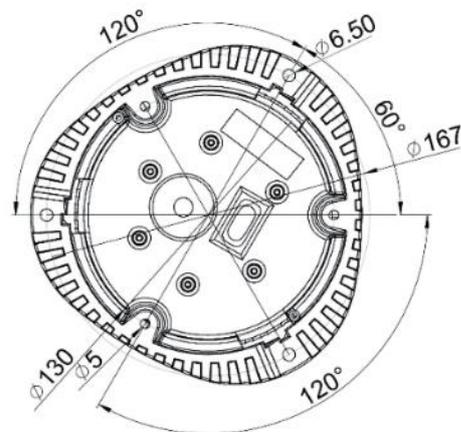
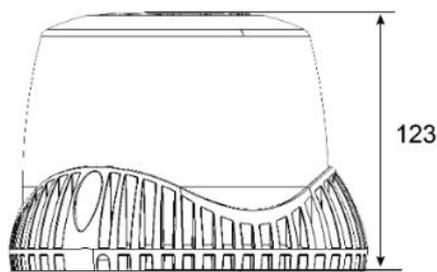
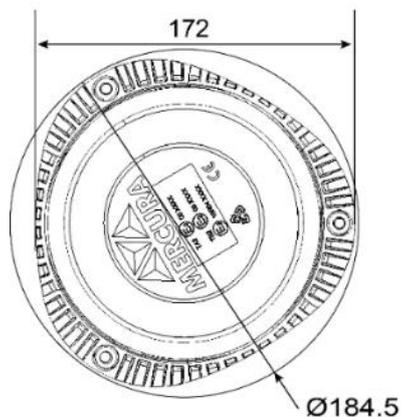
2 diameters of 3-point mounting are available:

- ISO type Ø130
- 3-point mounting Ø167

The M130 is equipped with a 10-way connector and a pre-wired 4-wire harness. A set of crimp pins is provided to add secondary functions (Synchronization etc...).

The M130 is delivered with a rubber protective gasket that interfaces with the vehicle roof.

## Technical Data



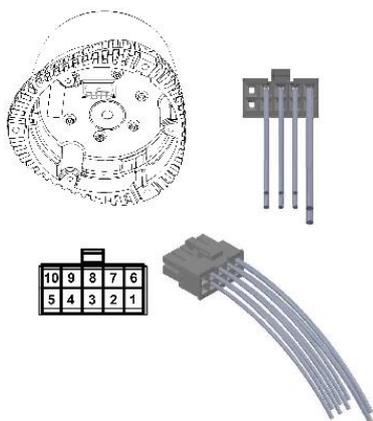
Power supply	12 / 24 VDC (10 ... 30 VDC)
Low voltage switch off	8 VDC
Consumption	<ul style="list-style-type: none"> <li>▪ 12VDC: 1,8 A</li> <li>▪ 24VDC: 0,9 A</li> </ul>
Operating temperature	-40°C à +85°C
Weight	1,27 kg

Approvals	ECE R65 :
	BLUE
	<ul style="list-style-type: none"> <li>▪ Flash : TB2 E2 0016105</li> <li>▪ Rotating : TB2 E2 0016106</li> </ul>

ECE R10 : n° « E2 10R05 16034 »

CISPR25 (2008) : Class 4 or 5 in radiation

## Connections and positioning (EN)



- N°1 pin : **N°1 wire** > **Ground** power GYROLED® M130 S
- N°2 pin : **N°2 wire** > **Night Mode**
- N°3 pin : **N°3 wire** > **Rear half Cruise function**
- N°4 pin : **N°4 wire** > **Operating mode selection** (Only flash pattern : R65 Rotating, R65 Double Flash, R65 Trilpe Flash)
- N°6 pin : **N°6 wire** > « + » **GYROLED® M130 S power supply**
- N°7 pin : **N°7 wire** > **Not used**
- N°8 pin : **N°8 wire** > **Not used**
- N°9 pin : **N°9 wire** > **Front Half function**

GYROLED® M130 S is supplied with a connector kit equipped with 4 screen-printed wires. 4 pins MINIFIT MOLEX not wired. The connector is equipped with the 4 basic operating wires (Power " + " and " - ", Mode Selection, GYROLED® Night), the other pins supplied separately correspond to the connector pin numbers and are associated with operating options (Synchronization and Cruise).

To select one of the 3 available Flash modes, power up the GYROLED® M130 then apply pulses to the " +Battery " on wire n°4 until the desired mode is reached. This mode remains memorized even if the power supply of the GYROLED® M130 is disconnected.

Note: In order to facilitate the identification of the Flash modes, mode n°13 is the one which only lights the upper led located at the top of the light.

The NIGHT function is used to limit the light output of the light during night-time operation.

The choice of location for the installation of a GYROLED® M130 S on a vehicle must meet the requirements of the regulations for light signaling installations.

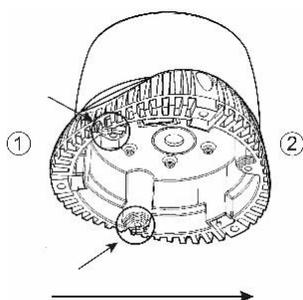
The GYROLED® M130 must be positioned vertically so that the light beam is projected on a horizontal plane.

It is also very important to ensure certain proximity rules with other equipment. Thus, the GYROLED® M130 must be installed more than 30 centimeters away from any radio or telephone equipment (transmitter-receiver, cables, antennas, filters).

It is imperative to respect the dimensioning of the electrical harnesses, in diameter and length, in order to maintain the effectiveness of the line protection (Fuse). We therefore recommend the use of 1mm<sup>2</sup> cross-section wires for the supply wires.

The protective fuse must be positioned at the head of the line as close as possible to the battery. Its value must take into account the consumption of the installed equipment as well as the length of the line itself (2A for 12 volts; 1A for 24 volts).

The connections of the GYROLED® M130 S must be crimped properly using the appropriate tooling.



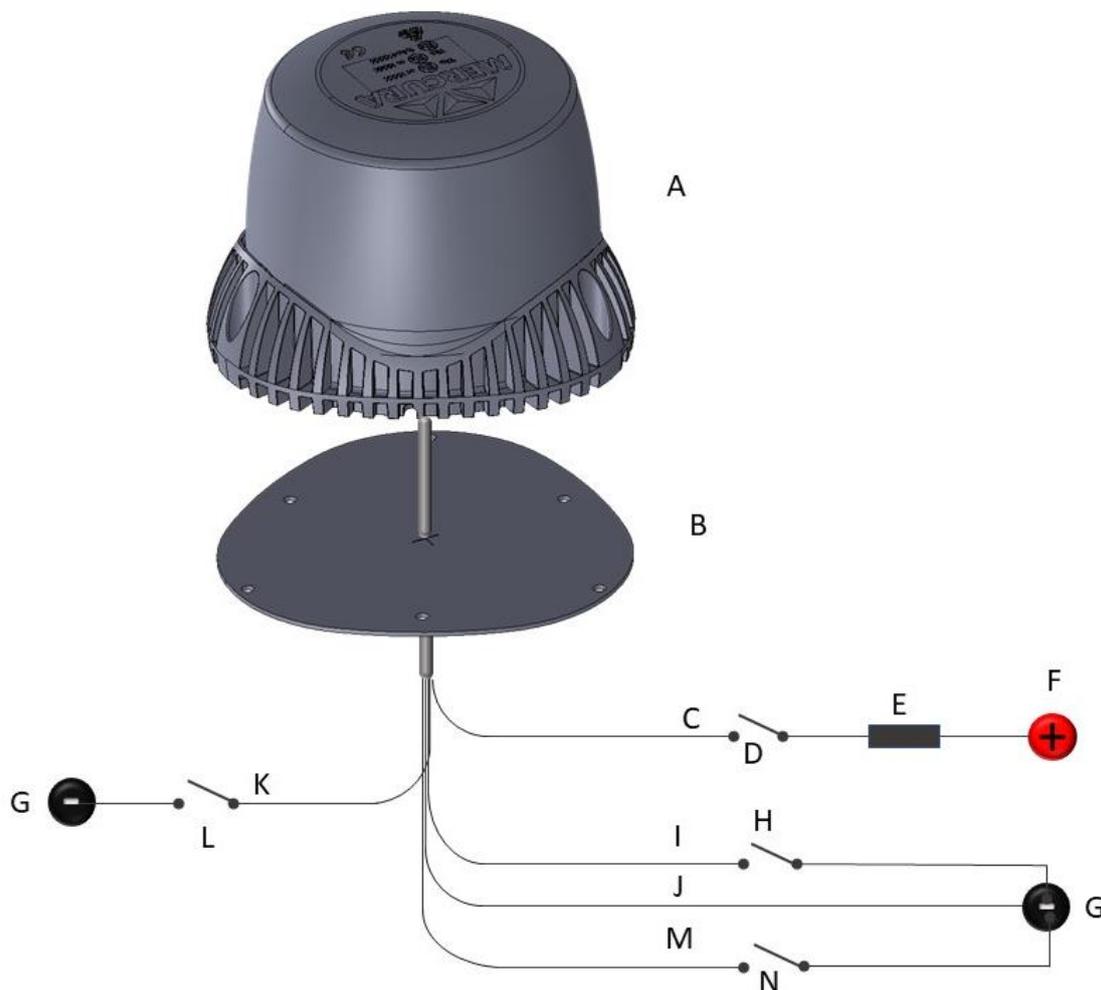
### FITTING ORIENTATION

The installation of the GYROLED® M130 S on the roof of the vehicle must respect a particular orientation. In fact, the 2 baffles present on the base must face backwards.

1. Rear
2. Front

## Wiring diagrams

POWER CONNECTIONS, CRUISE FUNCTION, NIGHT FUNCTION



- A. GYROLED® M130 S**
- B. Protective seal GYROLED M130 S / Roof vehicle**
- C. Wire to n°6 pin: POWER SUPPLY GYROLED M130 S**
- D. M130 GYROLED® control (not supplied) \***
- E. Power line fuse (not supplied)**
- F. « + » Battery**
- G. Ground Battery**
- H. NIGHT Mode control (not supplied)**
- I. Wire to n°2 pin: NIGHT Mode**
- J. Wire to n°1 pin: GROUND power supply GYROLED M130 S**
- K. Wire to n°9 pin: FRONT HALF function**
- L. FRONT HALF function control (not supplied)**
- M. Wire to n°3 pin: REAR HALF CRUISE function**
- N. REAR HALF CRUISE function control (not supplied)**

(\*) ATTENTION ! « + » Battery M130 S GYROLED® control only

## Rubber seal laying

The rubber seal supplied with the M130 can be used as a drilling template.

