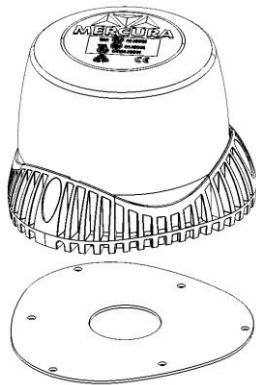


1. GYROLED® M130 – Reference according to colour
2. PROTECTIVE SEAL - Reference 29637
3. USER MANUAL - Reference 29816
4. STAINLESS STEEL SCREW H M06x16 (x3) & FLAT WASHER (x3)
5. GYROLED M130 WIRING LOOM (x1) – Reference 30024
6. MINIFIT MOLEX PINS (x4) – Reference 25530
7. NYLON BAG – Reference 16782



MERCURA's GYROLED® M130 SB1 is a high power CLASS 2 LED beacon. The light is supplied with 14 integrated flash patterns.

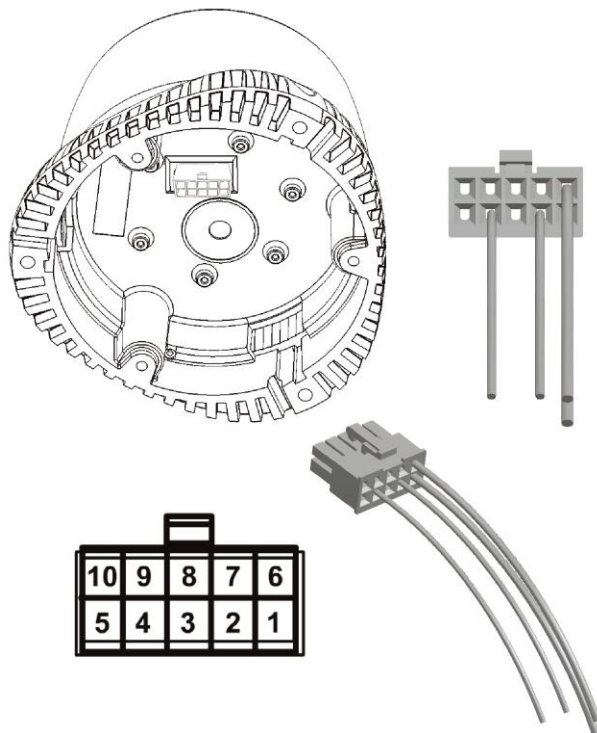
Two fixing diameters are available: 1 x ISO type Ø130 and 1 x 3-point fixing mode Ø167. The M130 is supplied with a 10-pin connector and a wiring loom with 4 pre-connected wires. A pin set is also supplied to add secondary functions (Synchronisation etc...)

The M130 is also delivered with a protective rubber seal that ensures the interface with the vehicle roof.

The GYROLED® M130 is available in the following colours:

- Blue
- Amber
- Red
- Green
- White

Power supply : 10 – 30 Volts		Weight : 1,274 Kg	
Low voltage cut off value : 8 volts		All available Flash patterns : 1. Rotating R65 2. Double Flash R65 3. Triple Flash 4. Single Flash 5. ½ Rotating 6. ½ Double Flash 7. ½ Triple Flash 8. ½ Single Flash 9. ICAO Flash 10. ICAO Rotating 11. ½ ICAO Flash 12. ½ ICAO Rotating 13. Double Flash R65 (Day) / Rotating R65 (Night) 14. Top central LED on only	
Power : 22W max.			
<ul style="list-style-type: none"> <li>• Operating temperature : -40°C to +85°C</li> </ul>			
References GYROLED® ISO: <input type="checkbox"/> Blue : 28700 <input type="checkbox"/> <b>Blue SB1 : 29812</b> <input type="checkbox"/> Amber : 28701 <input type="checkbox"/> Red : 28703 <input type="checkbox"/> White : 28702 <input type="checkbox"/> Green : 28704		The GYROLED® M130 is R65 approved in Blue, Amber and Red colour only	
R65 approval	<ul style="list-style-type: none"> <li>• Blue Flash : TB2 E2 0016105</li> <li>• Blue Rotating : TB2 E2 0016106</li> </ul>	<ul style="list-style-type: none"> <li>• Amber Flash : TA2 E2 0016107</li> <li>• Amber Rotating : TA2 E2 0016108</li> </ul>	<ul style="list-style-type: none"> <li>• Red Flash : TR2 E2 0016220</li> <li>• Red Rotating : TR2 E2 0016221</li> </ul>
<ul style="list-style-type: none"> <li>• "E" Marking Approval R10 n° « E2 10R05 16034 »</li> <li>• CISPR25 (2008) : class 4 or 5 radiating</li> </ul>			



- Pin n°1 : Wire n°1 : Ground power supply GYROLED M130
- Pin n°2 : Wire n°2 : NIGHT function
- Pin n°3 : REAR HALF FLASH function
- Pin n°4 : Wire n°4 : Operating mode selection
- Pin n°6 : Wire n°6 : « + » power supply GYROLED M130
- Pin n°7 : Synchronized Input mode n°1
- Pin n°8 : Synchronized Input mode n°2
- Pin n°9 : Output synchronisation

The GYROLED® M130 is supplied with a connector kit including 4 silk-printed wires. 4 pin Molex Minifit unwired. The connector is equipped with the 4 basic operating wires (Power supply "+" and "-" Selection Mode, Night Gyroled®), the other pins provided separately correspond to the connector pin numbers and are associated with operating options (synchronization).

To select an operating mode from among the 14 available, power the Gyroled® M130 then apply pulses to "+ Battery" to wire n°4 until you reach the required pattern. The selected pattern remains in the memory even if the Gyroled® M130 has been disconnected.

Note : To enable easy identification of the flash patterns, the 14th mode is only has the central LED lit up at the top of the beacon.

The NIGHT function reduces the beacon light brightness during a night Intervention except 13<sup>th</sup> pattern (Flash to rotate mode).

The REAR HALF FLASH function lights up 8 of the 13 leds to the rear.

The choice of the Gyroled® M130 position on a roof vehicle must meet regulation requirements on light signalling installation.

The Gyroled® M130 should be placed vertically, so that the light beam is projected onto a horizontal plane.

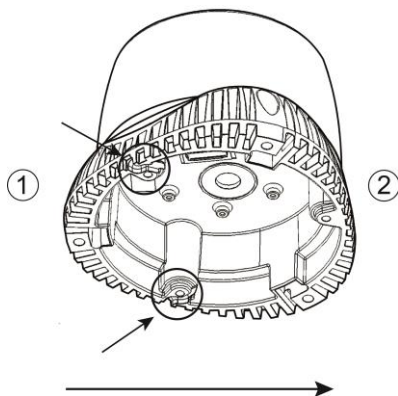
It is also very important to adhere to certain rules of proximity to other equipment. Therefore, the Gyroled® M130 must be mounted at more than 30 centimeters away from radio or telephone equipment (transceiver, cables, antennas, filters).

It is crucial to follow recommendations about electrical wire dimensions (diameter and length) in order to maintain the efficiency of the line protection (fuse). Also we recommend the use of 1mm<sup>2</sup> section wire for the power supply.

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

The Gyroled® M130 connections must be crimped using the appropriate tools.

## GYROLED® M130 POSITIONING

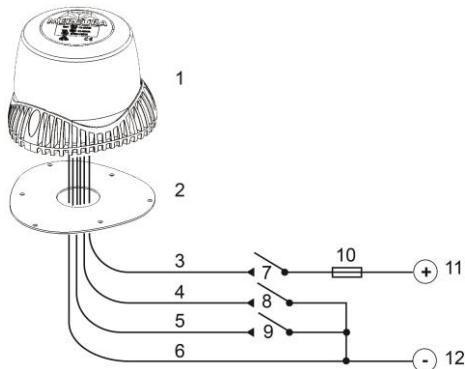


### MOUNTING INDICATIONS

The GYROLED® M130 installation on the vehicle roof must be done in a specific way. The 2 small ducts on the base must be placed to the rear.

1. Rear
2. Front

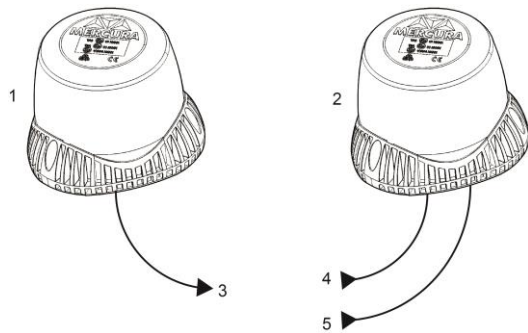
## CONNECTING THE POWER SUPPLY, CRUISE FUNCTION, NIGHT FUNCTION



1. GYROLED® M130
2. Protective seal GYROLED M130 / Roof vehicle
3. Wire n°6 power supply GYROLED M130
4. Wire n°2 : Night function
5. Wire n°3 : REAR HALF FLASH function
6. Wire n°1 : Ground power supply GYROLED M130
7. M130 GYROLED® control (not supplied)\*
8. Night function control (not supplied)
9. Cruise function control (not supplied)
10. Power line fuse (not supplied)
11. « + » Battery
12. Ground Battery

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

## CONNECTING THE SYNCHRONISATION MODE



1. GYROLED® M130 « Master »
2. GYROLED® M130 « Slave »
3. Wire n°9: Synchronisation signal output
4. Wire n°7 : Synchronisation signal n°1 input (Synchronisation in phase)
5. Wire n°8 : Synchronisation signal n°2 input (Synchronisation in phase opposition)

The synchronization between 2 GYROLED® M130 is done by connecting the "Master" beacon wire n°9 "Synch. output " to one of the 2 "Slave" beacon synch. inputs according to the synch. mode chosen.



The Gyroled M130 installation on the vehicle should be done in compliance with the specific current regulations regarding emergency and service vehicles special lighting. The beacon flash pattern choice must also meet these requirements.  
The installer is therefore fully responsible for the product installation and flash pattern chosen.



Handle the GYROLED M130 with precaution. Wearing gloves is recommended to avoid cuts and scratches on the hands during installation.



Do not handle the GYROLED® M130 immediately after use, to avoid burning the hands, as the aluminum base may still be hot.



Do not stare directly at the GYROLED during operation, so as to avoid eye damage.



The wiring loom passage from the Gyroled through to the vehicle interior must be absolutely waterproof. The use of an impermeable seal is recommended.

