

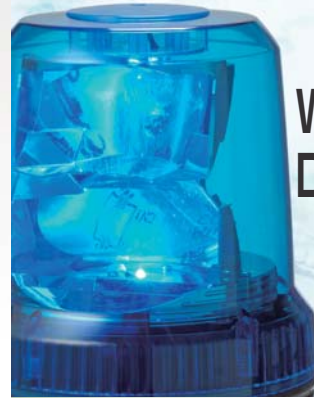
New Frontiers in Safety, Security and Comfort

# PATLITE®



LED + Brushless Motor + Mechanism

## Long Life



Water Resistance  
Dust Resistance



NEW DESIGN

## High Visibility



11.2  
Vibration Resistance<sup>※</sup>

※Except RLR-M2

# MAINTENANCE FREE

## LED Revolving Warning Light RLR

12/24V DC • 48V DC • 90~250V AC

new

- IP6X : Total Protection against dust (dust-tight).
- IPX6 : Protection against heavy seas



2 rue René Laennec 51500 Taissy France  
Fax: 03 26 85 19 08, Tel : 03 26 82 49 29

E-mail: hvssystem@hvssystem.com  
Site web : www.hvssystem.com



www.patlite.com

# LED Revolving Warning Light

Ideal for forklift, material handing equipment and a great variety of applications



## LED + Brushless Motor + Bearing Mechanism

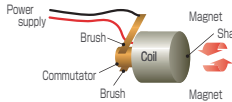


### Long Life

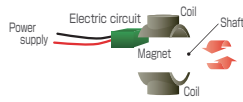
The RLR has many advantages compared to a rotating beacon with incandescent bulb and standard motor. The LEDs last approximately 20x to 40x longer than an incandescent bulb.

The combination of the brushless motor and bearing mechanism allows the RLR to operate for 8,000 hrs to 10,000 hrs compared to 5,000 hrs for other rotating beacons.

#### Structure of conventional motor



#### Structure of Brushless motor



In a conventional (brushed) DC motor, the brushes make mechanical contact with a set of electrical contacts on the rotor (called the commutator), forming an electrical circuit between the DC electrical source and the armature coil-windings. As the armature rotates on axis, the stationary brushes come into contact with different sections of the rotating commutator. The commutator and brush system form a set of electrical switches, each firing in sequence, such that electrical-power always flows through the armature coil closest to the stationary stator (permanent magnet).



### Vibration Resistance

※Except RLR-M2

Unique rubber base absorbs the vibration generated from equipment and enables stable operation even at high vibration up to 110m/s<sup>2</sup>

## NEWLY DESIGNED



### High Visibility

High-power LEDs are located at the top and bottom of the beacon. Our high-intensity LEDs and innovative reflector design ensure outstanding illumination and exceptional brightness from any direction and distance.



### High Protection

#### IP66 TEST PROCEDURE

- 1 IPX6=Water is sprayed for at least 3 minutes, at a flow rate of 100 L/min, from a distance of 2.5 m to 3.0 m, from a 12.5mm diameter jet hose nozzle, and from all directions - 360
- 2 IP6X=Unit is tested with under-pressure in a dust chamber for 8 hours.



#### Application Examples

- Construction Equipment
- Forklift
- Signboard, Public Facility, etc



#### Typical Vibration Values

2G



Passenger Car

4.5G



Construction Machinery

7G



Emergency Vehicle

11G



Dump Truck

| Model  | Color                 | Rated Voltage | Dome                | Operating temp. | Vibration resistance | Mass   |
|--------|-----------------------|---------------|---------------------|-----------------|----------------------|--------|
| RLR-M1 | R (Red)               | 12/24V DC     | Polycarbonate resin | -30°C ~ +70°C   | 110m/s <sup>2</sup>  | 1.0kg  |
| RLR-04 | Y (Amber)             | 48V DC        |                     |                 |                      |        |
| RLR-M2 | G (Green)<br>B (Blue) | 90~250V AC    |                     | -10°C ~ +50°C   | 45m/s <sup>2</sup>   | 1.06kg |

| Dimensions (mm)   | Mounting Dimensions |
|---|---------------------|
|   |                     |
| <p>How to order</p> <p>Rated Voltage 04: 48V DC<br/>M1: 12/24V DC<br/>M2: 90V AC~250V AC</p> <p>Color<br/>R : Red G : Green<br/>Y : Amber B : Blue</p> <p>Mounting Dimensions<br/>Blank : φ140<br/>P : φ120</p> | <p>RLR-□□-□-□-□</p> |

#### CAUTION

To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.



PATLITE ECO PROJECT