

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** ※

※Except RLR-M2

MAINTENANCE FREE

new

LED Revolving Warning Light RLR

12/24V DC • 48V DC • 90~250V AC



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

LED Revolving Warning Light

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



LED + Brushless Motor + Bearing Mechanism

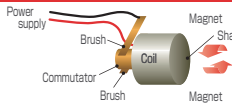


Long Life

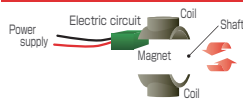
The RLR has many advantages compared to a rotating beacon with incandescent bulb and standard motor. The LEDs last approximately 20x to 40x longer than an incandescent bulb.

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/s²

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 ²	1.0kg
RLR-04	Y (Amber)	48V DC				
RLR-M2	G (Green) B (Blue)	90~250V AC		-10°C ~ +50°C	45m/s ²	1.06kg

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

PATLITE Corporation

8-8, Matsuyamachi, Chuo-ku, Osaka, Japan 542-0067 TEL.+81-6-6763-8220 FAX.+81-6-6763-8221
International Division, Sales and Marketing Department

PATLITE (U.S.A.) Corporation
20130 S. Western Ave., Torrance, CA 90501, U.S.A. TEL.+1-310-328-3222 FAX.+1-310-328-2676

PATLITE Europe GmbH
Am Soeldnermoos 8, D-85399 Hallbergmoos, Germany

PATLITE (SINGAPORE) PTE LTD
No.2 Leng Kee Road, #05-01 Thyee Hong Centre, Singapore 159086 TEL.+65-6226-1111 FAX.+65-6324-1411

PATLITE (CHINA) Corporation
Room 512, Jufeng Business Building, No.697-3 Lingshi Road, Shanghai China 200072 TEL.+86-21-6630-8969 FAX.+86-21-6630-8938

<http://www.patlite.com>

E-mail: overseas@patlite.co.jp

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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

For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products.