

Signal Beacons

INSTRUCTION MANUAL Digest Version

TYPE NE-24A

Notice to Customer Thank you very much for purchasing our Patlite products.
 • Request the installation and wiring to be performed by a professional contractor if construction work is involved.

- Prior to installation, read this manual thoroughly before using this product to ensure correct use.
- In addition, please store this manual for future reference when performing maintenance, repairs or inspections.
- Visit our homepage (<https://www.patlite.com/>) and download the "Complete Operation Manual: NE-24A" to find out more about the operating method and features.
- If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE Sales Representative.

CE Marking

- This product conforms to EN standards and shows the CE Marking. This product has been tested and found to comply with the limits for a Class A device, pursuant to EMC DIRECTIVE. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This product must not be used in residential areas.

1 Read this First (Safety Precautions)

Warning Failure to observe the following may result in death or serious injury.

- To prevent from short-circuits or damage, observe the following:
 -Be sure the power is disconnected before replacement or repair, including the replacement of the fuse.
 -Use this product in a properly maintained condition. (Replace or repair if the globe, case, etc. are damaged.)
- If installing this product requires construction work, ask a specialist in order to avoid fire, or personal injury.
- When this product is used for security purposes, it should be inspected daily. In case a malfunction should occur, it is recommended that you use this product together with other security products.
- After installation, do not use this product to climb up onto the equipment with. Failure to comply will result in product damage and/or falling off the machinery.

Caution Failure to comply with the following points may result in injury, physical loss or damage.

- Be sure to put a fuse in the wiring circuit between the power source and equipment for protection. If a fuse is not added, it may result in product and/or equipment failure.
- Be sure to prevent electrostatic damage due to discharge when working with this product for wiring, exchanging units, setting up parameters, etc. by discharging static electricity on your body, etc.
- Do not disassemble or detach during operation.
- Do not push on any internal parts when wiring.

2 Model Number Configuration

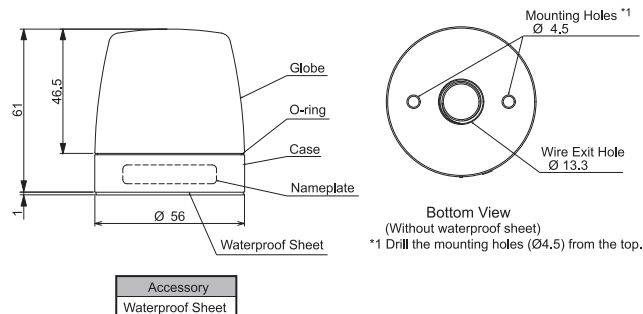
Model	Rated Voltage	LED Unit Color
Assembly Model	NE	A
	24V DC	R Red Y Amber G Green B Blue C White

Model Number Example **NE-24A-R**

- 24 V DC • Red

3 Part Names and Outer Appearance

Unit: mm



4 Installation

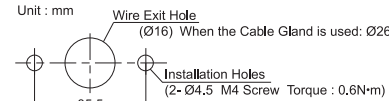
- The following requirements are necessary for proper installation:
 - Install the signal beacons where excessive vibration is not present.
 - Install the signal beacons on a sturdy surface.
 - Install the signal beacons on a level surface.

- When it is necessary to waterproof the backside of the installation surface:
 - Provide a sealant coating around the nuts of the backside of the installation surface.
 - Provide a sealant coating around the wire exit hole, or use a Cable Gland.

- After locking the globe, check that there is no gap between globe and body. Being a gap may cause water intrusion or falling off the globe.

- (1) Unlock the globe by holding and rotating it in a counter-clockwise direction, then lift it up.
- (2) Drill the mounting holes(Ø4.5) from the top on the case.
- (3) Peel off the adhesive paper from the waterproof sheet and apply it to the case.
- (4) Affix the product to the installation surface with screws and nuts. (Installation screws and nuts are not included with this product.)
- (5) After mounting the case, fit the globe by aligning the positioning marks and lock it by rotating in a clockwise direction.

Installation Dimensions



- When the Cable Gland is used, the hole must be large enough for it to fit through.

The recommended Cable Gland size is as follows:
 screw size: M16x1.5; screw length: shorter than 11mm;
 outer diameter: less than 25mm;
 material: plastic. (Torque : 3N·m)

Caution

- This product is for indoor use only. (Do not use it outdoors.)
- Do not leave the product, or use it without globe installed.
- Do not apply excessive force when mounting/removing the globe. Failure to comply will result in damage.
- Use a soft cloth moistened with water to clean the globe or case. (Do not use thinner, benzine, gasoline or oil.)
- The waterproof sheet must be used before installation.
- This product has a 1mm thick waterproof sheet at the bottom of the case. However, because installation surface unevenness may cause a lack of waterproofing protection, it is recommended to apply sealant between the unit and the installation surface to maintain waterproof conditions.

5 Wiring

- (1) Remove the globe by unscrewing it in a counter-clockwise direction.
- (2) Connect the wires to the screwless terminal block.
- (3) Attach the globe by screwing it in a clockwise direction.

- The terminals have no polarity.

Screwless Terminal Block wiring method

- (1) A minus driver etc. is used to pry the lever slot of the Terminal Block open, by pushing straight onto the lever slot.
- (2) The stripped side of the lead wire is inserted in the slot.
- (3) The driver is removed to release the lever. (Check to make sure the lead wire has been locked in place.)

- Strip 8 mm of wire insulation from the wire to insert it in the Terminal Block.
- The minus driver blade should be at about 2mm by 0.5mm in size.

Caution

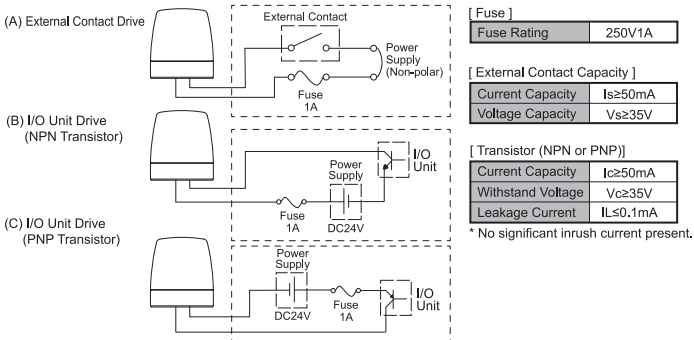
- Make sure the power is OFF before wiring. A short circuit may damage internal circuits.
- Ensure the proper working voltage is used. Improper voltage will damage internal circuits.
- Do not pull the wire out or push it into the case.
- Be sure the wiring is done properly. Any mistake in wiring may result in damage.
- Be sure to put a fuse in the wiring circuit between the power source and equipment for protection. If a fuse is not added, it may result in product and/or equipment failure.
- Do not apply excessive force to the screwless terminal block during wiring. It will be the cause of the failure.

Notice

- Make sure that the wires do not sag internally. There is a risk that the light intensity may be reduced by hitting the LED.

Wiring Example

Wiring examples vary depending on the driving method.



6 Specifications

Model	NE-24A-□
Rated Voltage	24V DC (Non-polar)
Current Consumption (Max.)	26mA
Mounting Direction	All Directions
Operating Temperature Range (Relative Humidity)	-30°C ~ +50°C (Less than 90%RH, Non-condensation)
Protection Rating	IP 65 ^{*1} NEMA TYPE 4X, 13
Mass	0.06kg

^{*1} Condition to satisfy IP66/67: Only when this product is installed with a Cable Gland on a flat surface.

- Conformity Standards
 • EMC Directive (EN61000-6-4, EN61000-6-2)
 • UL508, CSA-C22.2 No.14
 • RoHS Directive (EN50581)

- Conformity requirements for the UL Standard:
 • Maximum surrounding air temperature rating of 50 °C
 • This product is designed for use on a flat surface for a **Type 1 Enclosure**.
 • Use a "class 2" power supply specified in the guidelines under **UL1310**.
 • For use in Pollution Degree 2 Environment.

- Conformity requirements for the CE Marking:
 This product conforms to EN standards and shows the CE Marking. This product has been tested and found to comply with the limits for a Class A device, pursuant to EMC DIRECTIVE. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This product must not be used in residential areas.

(Note) • Dimensions and specifications may change without notice due to continual product improvement.
 • PATLITE and the PATLITE logo is a trademark, or registered trademark of the PATLITE Corporation of Japan and each country.

(Importer for EU)

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