

# 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 ([www.patlite.com](http://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.
- This product has been tested and found to comply with the limits for a Class A device.
- 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

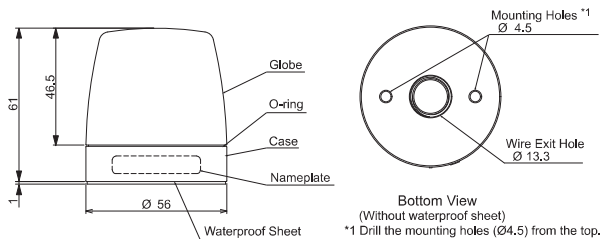
Model	Rated Voltage	LED Unit Color
Assembly Model	NE -	A -
	24	R
	24V DC	Y
		G
		B
		C

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



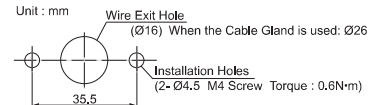
Accessory  
Waterproof Sheet

## 4 Installation

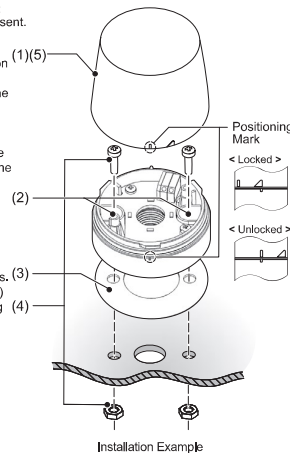
- The following requirements are necessary for proper installation:
  - Install the signal beacons where excessive vibration is not present.
  - Install the signal beacons on a sturdy surface.
  - Install the signal beacons on a level surface.
- When it is necessary to waterproof the backside of the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

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



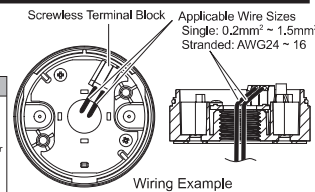
- ### Caution
- This product is for indoor use only. (Do not use it outdoors.)
  - Do not leave the product, or use it without globe installed.
  - Do not apply excessive force when mounting/removing the globe. Failure to comply will result in damage.
  - Use a soft cloth moistened with water to clean the globe or case. (Do not use thinner, benzene, 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

- Remove the globe by unscrewing it in a counter-clockwise direction.
  - Connect the wires to the screwless terminal block.
  - Attach the globe by screwing it in a clockwise direction.
- \* The terminals have no polarity.

### Screwless Terminal Block wiring method

- A minus driver etc. is used to pry the lever slot of the Terminal Block open, by pushing straight onto the lever slot.
  - The stripped side of the lead wire is inserted in the slot.
  - 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.

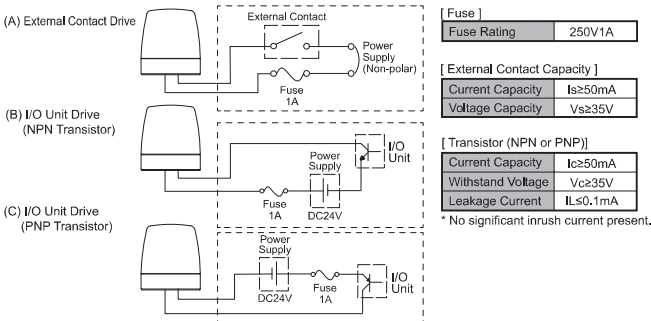


- ### Caution
- Make sure the power is OFF before wiring. A short circuit may damage internal circuits.
  - Ensure the proper working voltage is used. Improper voltage will damage internal circuits.
  - Do not pull the wire out or push it into the case.
  - Be sure the wiring is done properly. Any mistake 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 ** 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

- 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.

- This product has been tested and found to comply with the limits for a Class A device. 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.  
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**PATLITE Corporation**

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