

Signal Beacons

INSTRUCTION MANUAL Digest Version

TYPE NE-M1A

Notice to Customer Thank you very much for purchasing our Patlite products.

- Request the installation and wiring 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) and download the "Complete Operation Manual: NE-M1A" to find 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.

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.

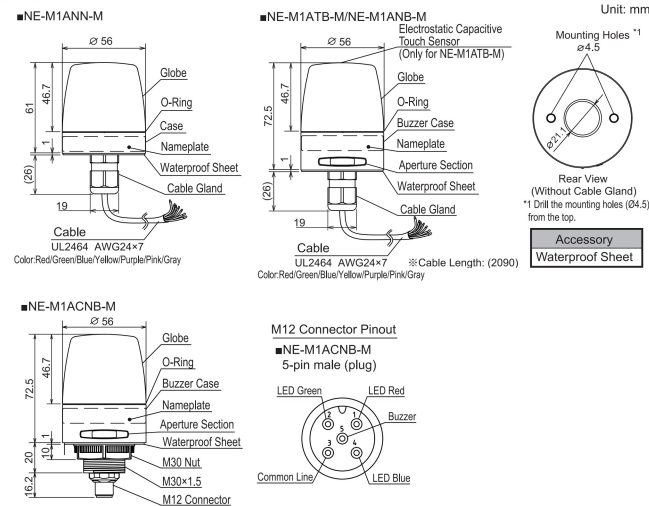
2 Model Number Configuration

Assembly Model	Model	Rated Voltage	Wiring	Touch Sensor	Buzzer	LED Unit Color
NE-M1A	NE	M1	A			M

M1	12 ~ 24V DC	T	With Touch Sensor ※2	M	Multicolor
[None]	Cable	N	No Touch Sensor	B	With Buzzer
※1 N B	C M12 Connector Connecter	※1		N	No Buzzer

Model Number Example **NE-M1ATB-M**
 • 12~24V DC • Cable • Touch Sensor • Buzzer • Multicolor

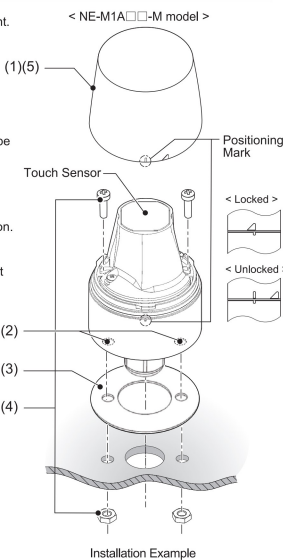
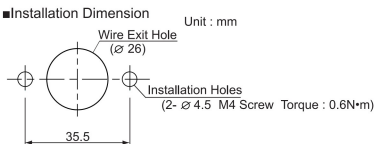
3 Part Names and Outer Appearance



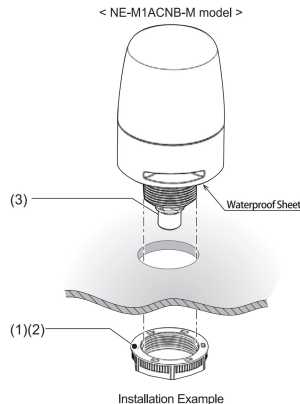
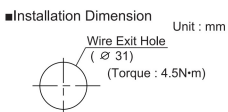
4 Installation

- 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 where an enough space to touch the touch sensor can be secured around the globe. (Only for NE-M1ATB-M)
- When waterproofing, apply a sealing coating onto the nuts on the backside of the installation surface.
- After locking the globe, check that there is no gap between the globe and the case. Being a gap may cause water intrusion or falling off the globe.

- NE-M1ANN-M/NE-M1ANB-M/NE-M1ATB-M
- Remove the globe by unscrewing it in a counter-clockwise direction.
 - Drill the mounting holes(Ø4.5) from the top on the case. (Be careful not to hit the drill against the touch sensor.)
 - 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.)
 - Set the globe by aligning the positioning marks after attaching the case, then turn the globe clockwise to lock it.



- NE-M1ACNB-M
- Remove the M30 nut.
 - Fix on the mounting surface with the M30 nut.
 - Connect the M12 cable to the M12 Connector.



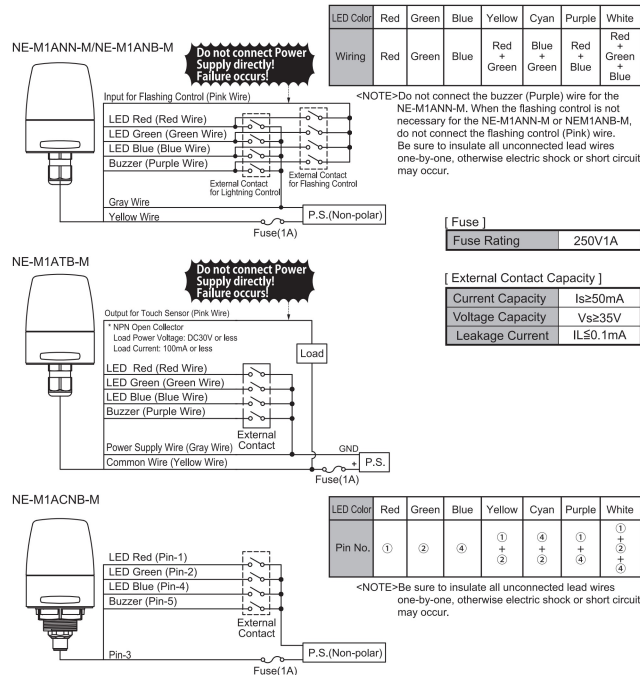
Caution

- 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

- 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.

Wiring Example



6 Specifications

Model	NE-M1ANN-M	NE-M1ANB-M	NE-M1ATB-M	NE-M1ACNB-M
Operation Voltage Range	DC10 ~ 30V			
Current Consumption (Max)	12V DC	65mA	95mA	
	24V DC	50mA	75mA	
Mounting Direction	All Directions			
Operating Temperature Range (Relative Humidity)	-25°C ~ +60°C (Less than 90%RH, Non-condensation)			
Protection Rating	No Buzzer:IP 67, With Buzzer:IP 65, NEMA TYPE 4X, 13			
Flashing Cycle	500ms			
Mass	0.15kg		0.17kg	0.1kg

- Conformity Standards
 - EMC Directive (EN61000-6-4, EN61000-6-2)
 - UL508, CSA-C22.2 No.14
 - KC (KS C 9610-6-4, KS C 9610-6-2)
 - RoHS Directive (EN IEC 63000)
 - FCC Part 15 Subpart B Class A

- Conformity requirements for the UL Standard:
 - Maximum surrounding air temperature rating of 60 °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 to FCC Compliance:
 - This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. The equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, the user will be required to correct the interference at their own expense.
 - 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.
 • PATLITE and the PATLITE logo is a trademark, or registered trademark of the PATLITE Corporation of Japan and each country.

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