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PATLITE®

# Signal Tower Instruction Manual LA6-POE

Thank you very much for purchasing our PATLITE products. Read this instruction manual carefully prior to use. This manual is a "Outline Version", containing information to ensure correct use.

- This product requires installation, wiring and other setup work. Always have installation work performed by a professional contractor.
- Prior to installation, read this manual thoroughly before using this product to ensure correct use.
- Reread this manual when maintenance, inspection, repair or other work is required. 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.
- For more details on installation, settings or wiring, download the **Complete Instruction Manual from our homepage**.

| Homepage address | https://www.patlite.com |
|---|---|

Always check the URL above, as it also includes information required for products and notifications about version upgrades.

■ To the Contractor
- Read this manual carefully prior to installation.
- 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.

## -Safety Precautions-

To prevent from personal injury, injury to others or property damage, the following precautions must be observed.

◆ The following symbols classifies the precautions into the following two categories depending on the degree of injury or damage caused by the failure to follow them:

**⚠ Warning** Indicates an imminently dangerous condition: failure to follow the instructions may lead to death or serious injury.
- Request the installation and wiring to be accompanied by a professional contractor. If installation is done improperly, it may result in fire, electric shock, falling, or malfunction.

**⚠ Caution** Indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.
- Use a soft cloth dampened with water to clean the product. (Do not use thinner, benzine, gasoline or oil.)

■ **Meaning of the symbols**

| Degree | Symbol | Contents |
|---|---|---|
| Prohibited | ⃠ | Indicates it is forbidden. |
| Caution | ⚠ | Indicates to show caution. |
| Directions | ! | Indicates when a procedure must be performed. |

## 1 Read this First

**⚠ Warning**
- ! To prevent from shock, short-circuits or damage, observe the following:
  - Be sure the power is disconnected before replacement (fuse exchange, etc.) or repair.
  - Use this product In a properly maintained condition. (Replace or repair if the body, LED unit, etc. are damaged.)
- ! Request the installation and wiring be performed by a professional contractor if construction work is involved. Failure to comply may result in fire, electric shock or falling from high places may occur.

**⚠ Caution**
- ⃠ Do not listen to the buzzer at close range. Failure to observe this may lead from irritation to permanent damage to the ears.
- ! In order to maintain protection of this product against dust and waterproofing performance, be sure to use the head cover, buzzer unit, USB cover and LAN Bracket in the condition that it was originally attached.( TN )
- ⃠ Do not operate this product with the 'O' ring or waterproof packing removed. Waterproof performance will drop and possibility cause failure. ( TN )
- ⃠ By all means, do not apply voltage to the Common wire (COM) or Flashing Common line. Product failure will occur.
- ⚠ When removing covers or packing from the equipment, which is attached to this product, be careful not to snag the product. Failure to comply may result in damage to the product.

**Note**
- ! To ensure proper safety while using the signal tower, observe the following:
  - Perform **periodic pre-maintenance**.
  - As a precaution against problems occurring, use **this product together** with **other equipment**.
- ! Be sure to **discharge any static electricity** from the body before handling static sensitive parts of this product. (To prevent damage from static electricity, touch hands or other body parts to metals or an earth ground to discharge the body from static charge.)
- ! Use a soft cloth, etc., dampened with water to wipe the main signal tower unit. (Do not use cleaners containing chemicals such as **thinner**, **alcohol**, **gasoline** or **oil**.)
- ! To ensure safety when this product is installed onto equipment, observe the following:
  - **Do not remove parts** beyond those designed to be removed from this product.
  - **Do not modify or disassemble** this product.
  - Use only the specified replacement parts listed in this manual.

## 2 Parts and Accessories

■ **LA6-5DTNWB-POE**

Main Unit

| Accessories | |
|---|---|
| Cross Recessed Pan Screw (M4x20) * Not to be used. | 3 pcs. |
| Flanged Nut (M4) | 3 pcs. |

Instruction Manual (This Book)

■ **LA6-5DSNWB-POE**

Main Unit

| Accessories | |
|---|---|
| Rubber Sheet | 3 pcs. |

Instruction Manual (This Book)



## 3 Model Configuration

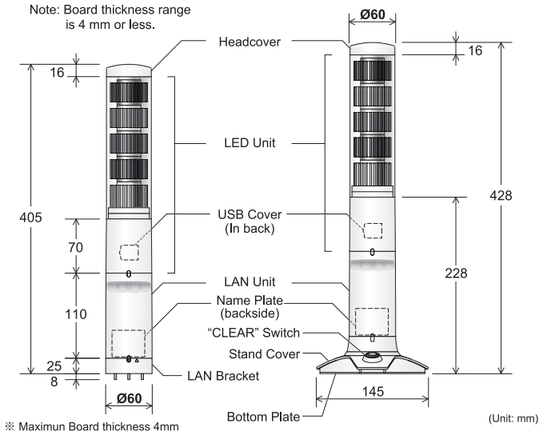
| | Model | LED Tiers | Rated Voltage | Mounting Specifications | Body Color | Flashing/ Buzzer | Extended Functionality |
|---|---|---|---|---|---|---|---|
| Model Number | LA6- | 5 | D | ↓ | W | B | -POE |

- D: Common to all models — Rated voltage: DC24V.
- TN: Direct Mount; SN: Stationary
- W: Common to all models — Off-white
- B: Common to all models — Flashing/Buzzer
- -POE: Common to all models — PoE Supported

## 4 Part Name and Dimensions

■ **LA6-5DTNWB-POE**

Note: Board thickness range is 4 mm or less.




※ Maximun Board thickness 4mm

■ **LA6-5DSNWB-POE**




(Unit: mm)

## 5 Installation

**⚠ Caution**
- ! When installing in high places, such as a top shelf, fix the Main Unit so it cannot move or fall.
- ⃠ Do not knock over or drop this product. Possible damage to the product may occur.
- ⃠ Do not run LAN cable from outside. There is a risk of exposure to lightning strikes or other adverse weather conditions.
- ⃠ The LAN Unit and Stand Cover cannot be separated. ( SN )

**Note**
- ! The following requirements are necessary for proper installation.
  - Location with strong and even surface with minimal vibration.
- ! Install the signal tower in an upright position.
- ! In cases where the installation placement is unavoidably irregular, and waterproof performance is required, use a sealant to the crevice between the product and the installation surface. ( TN )
- ! If an IP54 rating is required, when clamping each bracket, place sealant to the distribution hole area and the screw thread or nut. ( TN )
- ! Before placing the rubber sheet onto the bottom plate, be sure to removedust, water, an oil, etc., on the bottom plate and the installation location. ( SN )

### General Mounting and Installation Instructions

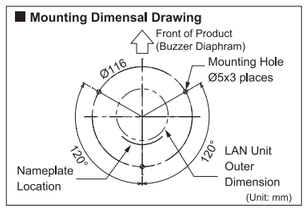
**SN Stationary Specifications**

1. Loosen the screw to remove the bottom plate. (Do not completely remove the screw from the bottom plate.)
2. The lock on the terminal block connector can be unlocked and removed for wiring. (Refer to → "terminal block connector wiring method") (→ 6 Wiring)
3. The LAN unit is connected to the terminal block connector and LAN cable.
4. The tab on the bottom of the stand cover is hooked in place and secured with a screw.

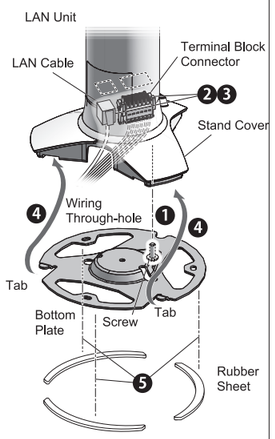
| Recommended Torque | 0.6 N/m (Standard) |
|---|---|

5. The rubber sheet is peeled from the yellow releasing paper, and is to be stuck onto the bottom plate. The transparent protection sheet on the rubber sheet is to be removed after attachment.

■ **Mounting Dimensal Drawing**




(Unit: mm)




※ The figure shows the most common installation circumstances, but cannot show for every possible circumstance.
※ The LAN cable and wiring is not included.



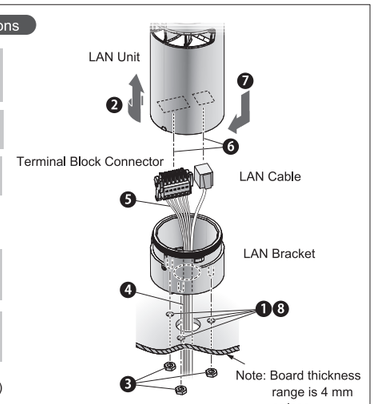
### TN Direct Mount Specifications

1. Make holes for the mount and wire-distribution hole for the product.
2. Firmly hold the LAN Unit, and the turn to the left to remove it.
3. Secure the LAN bracket with the accessorized nuts.

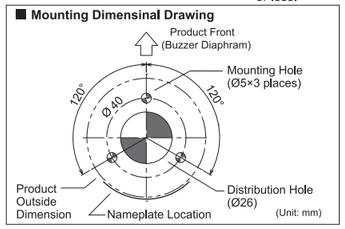
| Recommended Torque |
|---|
| 0.75 N/m (Standard) |

4. It allows the LAN cable wiring to pass through the distribution hole.
5. The lock on the terminal block connector can be unlocked and removed for wiring. (Refer to → "terminal block connector detachment method") (→ 6 Wiring)
6. The LAN unit is connected to the terminal block connector and LAN cable.
7. The LAN unit is attached.
8. Sealing around the mounting holes and the distribution hole is done if necessary.

※ The figure shows the most common installation circumstances, but cannot show for every possible circumstance.
※ The LAN cable and wiring is not included.




■ **Mounting Dimensinal Drawing**




(Unit: mm)

### Terminal Block Connector Wiring Method

■ **Removing**

< TN LAN Unit Underside View >




Refering to the drawing, depress the lever on the right and left of the terminal block connector to unlock it, and pull the terminal block connector straight out.

■ **Attaching**

< TN LAN Unit Underside View >




Push the terminal block connector into the LAN unit until the levers can be locked in place. (When pushing the terminal block connector in place, the lever will temporarily move up, before it moves down and locks into place.)

## 6 Wiring

■ **Terminal Block Connector Pin Arrangement**

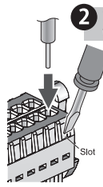
| | | | |
|---|---|---|---|
| Power Wire (Signal Wire Side) | 6 | 12 | COM |
| Power Wire | 5 | 11 | Flashing/Pulse Enable Common |
| Input 4 | 4 | 10 | Mode Change |
| Input 3 | 3 | 9 | Input 7 |
| Input 2 | 2 | 8 | Input 6 |
| Input 1 | 1 | 7 | Input 5 |

■ **Recommended lead wire specifications**

| Wire Type | UL1007/UL1430 |
|---|---|
| Wire Gauge (Solid Wire) | 0.2-1.5mm² |
| Wire Gauge (Frayed Wire) | AWG24-16 |

Temperature rating should be above 75°C, and the conductor material should be of copper wire.

■ **Terminal block connector wiring method**




2. The stripped side of the lead wire is inserted in the slot.
1. A minus driver etc. is placed on the slot and pushed into the slot of the terminal block connector. (at a slight angle)
3. The driver is then extracted from the slot. (Check to make sure the lead wire has been locked in place.)

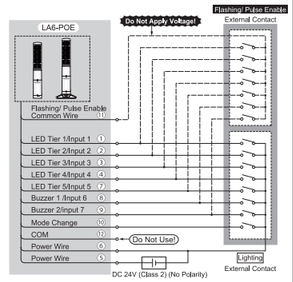
**Point**
- The minus driver blade should be no less than 2.5mm in width and 0.4mm in thickness. Any object that fits the dimensions is also ok.
- Do not forcibly push the slot more than necessary with the driver. Failure to comply may damage the unit.
- Strip 6-7mm of wire insulation from the wire before inserting it in the Terminal Block.
- When removing the lead wire, Do not just pull to remove. (Be sure to slide the minus driver etc. into the slot to unlock it.)



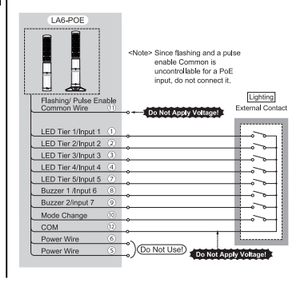
### Wiring Example

The following is a basic wiring example.
If there are any special applications that require asking questions concerning this product, feel free to contact your PATLITE Sales Representative.
※ The figure shows the most common installation circumstances, but cannot show for every possible circumstance.

| Power Supply | External Contact Classification |
|---|---|
| DC 24V Input | Voltage Contact Relay |




| Power Supply | External Contact Classification |
|---|---|
| PoE Input | Voltage Contact Relay |




## 7 Setup Method

Be sure to change the network Setup of the personal computer for the application as follows before communicating via a browser.
The personal computer IP address: 192.168.10.2-254
Subnet Mask: 255.255.255.0
(The default IP address at the time of factory shipment.)

Once the power supply is switched on and startup is complete, as shown in Fig. 1, enter the IP address of this product into the web browser address section.

The default IP address for this product is "192.168.10.1".

**< Web Browser Address Entry >**

http://192.168.10.1

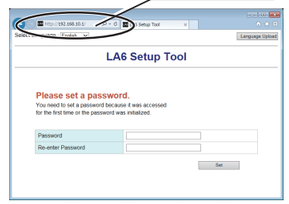



Figure 1. Password setup Screen

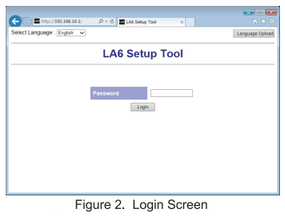



Figure 2. Login Screen

Recommended Browser: Internet Explorer 11, Google Chrome

Please set a password when accessing for the first time or when accessing after the initialization process. Login screen will be displayed after settings are complete. Click the "Login" button after entering the password set in the Password field.

※ The LAN cable should be rated for category 5e or higher.
※ The LAN cable can either be a straight or cross cable when connecting the PC to this product.
※ Internet Explorer is a trademark or registered trademark of Microsoft Corporation.
Google Chrome is a trademark or registered trademark of Google Inc.

## 8 Specifications

■ **Compliance Standards**

UL60950-1 (supplying DC24V power/PoE power)
UL508,CSA-C22.2 No.14 ( TN Only when supplying a DC24V supply)

**Conformity requirements for UL 508 Standard:**
Maximum surrounding air temperature rating of 50°C
This product is designed for use on a flat surface of a Type 1 Enclosure.

EMC Directive (EN 61000-6-4, EN 61000-6-2, EN55032, EN55024)

**Conformity requirements for CE Marking:**
This product conforms to EN standard 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.

FCC Part 15, Subpart B Class A

**Conformity requirements for FCC Part 15 Subpart B:**
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 in a residential installation.

RoHS Directive (EN 50581)
KC (KN 61000-6-4, KN 61000-6-2)

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