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PATLITE LA6-POE Multi Color LED Signal Tower Instruction Manual

PATLITE®

Contents

PATLITE LA6-POE Multi Color LED Signal Tower

Product Information

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
- 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 classify 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 the 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.

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

Caution

- Do not listen to the buzzer at close range. Failure to observe this may lead from irritation to and permanent damage to the ears.
- In order to maintain the 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. The 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.

Parts and Accessories

■ LA6-5DTNWB-POE

Main Unit

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

Instruction Manual (This Book)

■ LA6-5DSNWB-POE

Main Unit

Accessories	
Rubber Sheet	3 pcs.
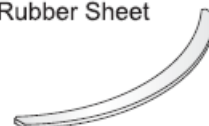
Instruction Manual (This Book)

Model Configuration

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

Common to all models
Rated voltage: DC24V.

Common to all models
PoE Supported

| TN | Direct Mount |
| SN | Stationary |

Common to all models
| W | Off-white |

Common to all models
| B | Flashing/Buzzer |

Part Name and Dimensions

■ LA6-5DTNWB-POE
Note: Board thickness range is 4 mm or less.

■ LA6-5DSNWB-POE

Headcover
LED Unit
USB Cover (In back)
LAN Unit
Name Plate (backside)
"CLEAR" Switch
Stand Cover
LAN Bracket
Bottom Plate

※ Maximun Board thickness 4mm

(Unit: mm)
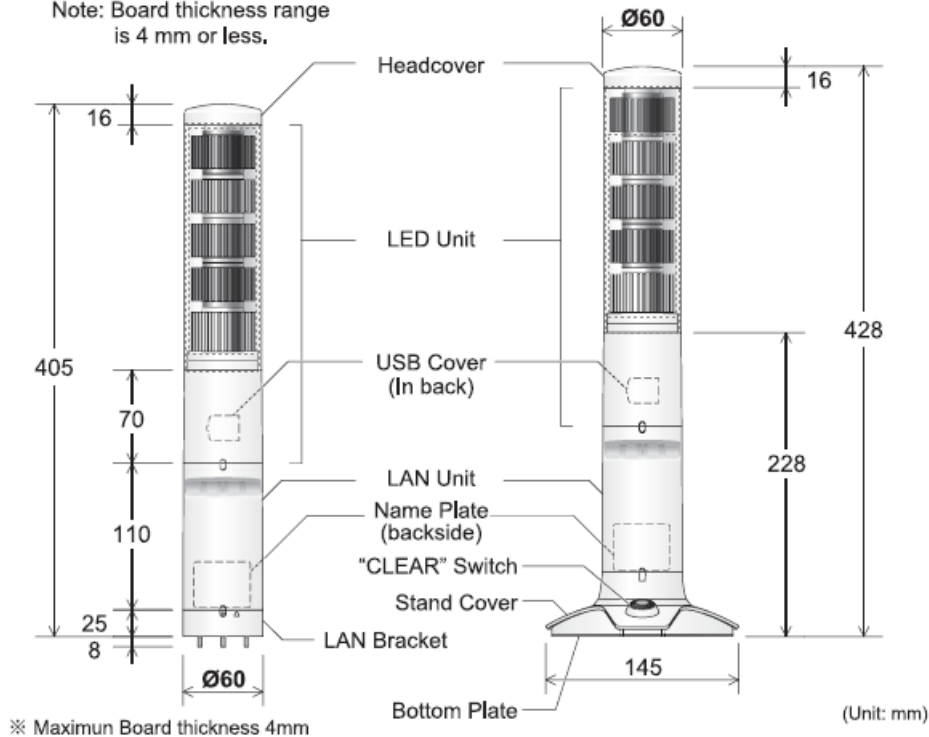
Installation

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. (SNI)

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)
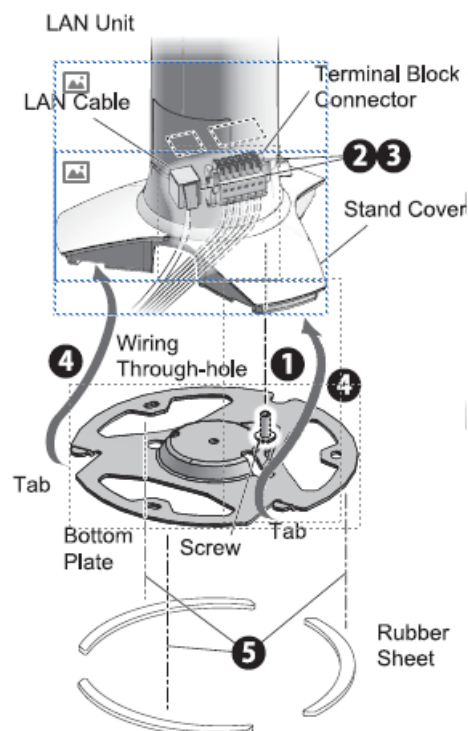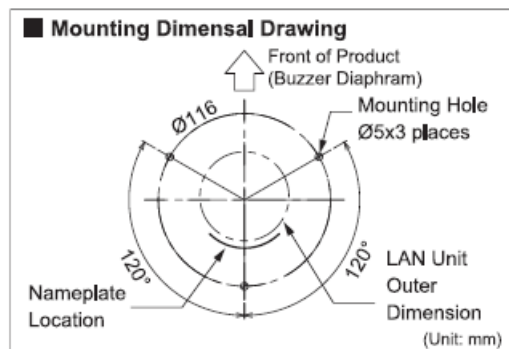
Stationary Specifications

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 the attachment.

■ **Mounting Dimensal Drawing**

Front of Product
(Buzzer Diaphram)

Ø116

Mounting Hole
Ø5x3 places

120°

120°

LAN Unit
Outer
Dimension
(Unit: mm)

Nameplate
Location

LAN Unit

LAN Cable

Terminal Block
Connector

❷❸

Stand Cover

Wiring
Through-hole

❹ ❶ ❹
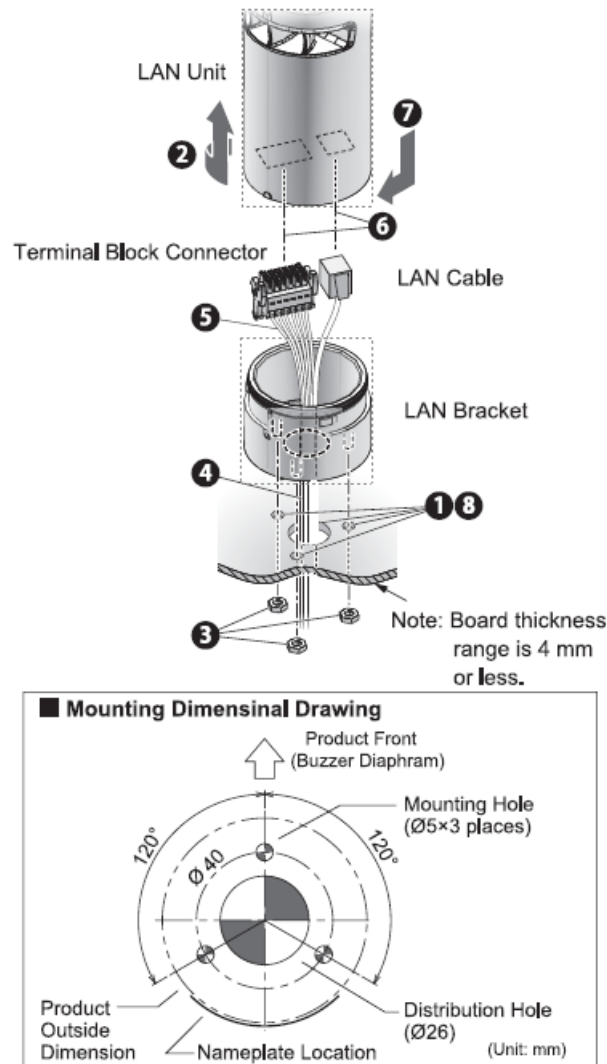
Tab

Bottom
Plate

Screw

Tab

❺

Rubber
Sheet

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.
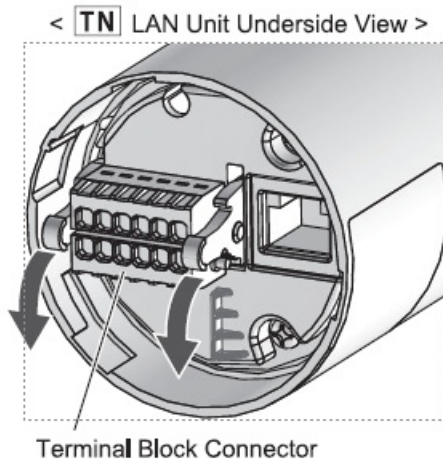
Recommended Torque 0.75 N/m (Standard)

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)

LAN Unit

❷ ❼

❻

Terminal Block Connector

LAN Cable

❺

LAN Bracket

❹

❶❽

❸

Note: Board thickness
range is 4 mm
or less.

■ **Mounting Dimensinal Drawing**

Product Front
(Buzzer Diaphram)

Mounting Hole
(Ø5×3 places)

120°   120°

Ø 40

Product
Outside
Dimension

Distribution Hole
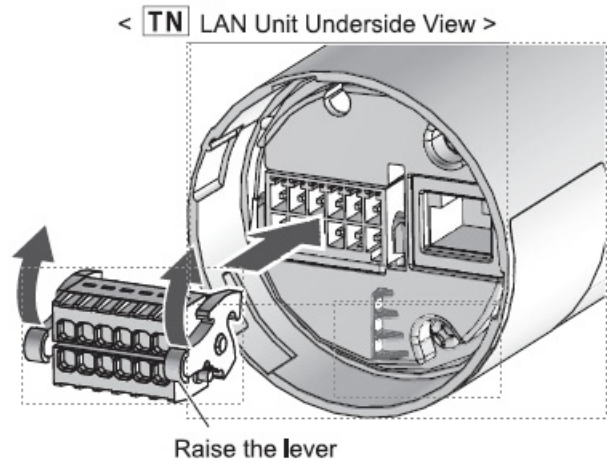(Ø26)

Nameplate Location

(Unit: mm)

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.

Terminal Block Connector Wirina Method

■ **Removing**

< TN LAN Unit Underside View >

Terminal Block Connector

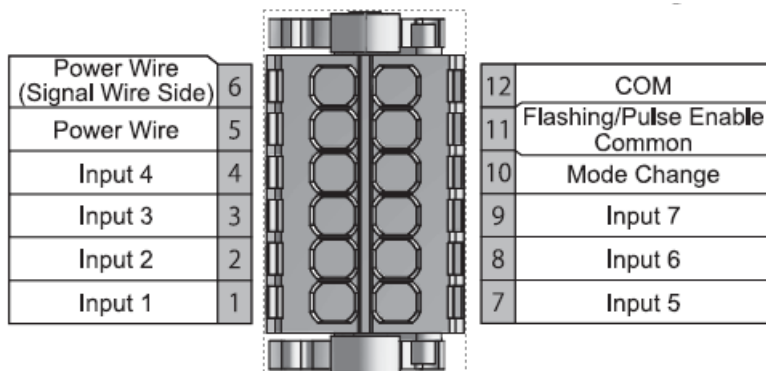■ **Attaching**

< TN LAN Unit Underside View >

Raise the lever

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.
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.)
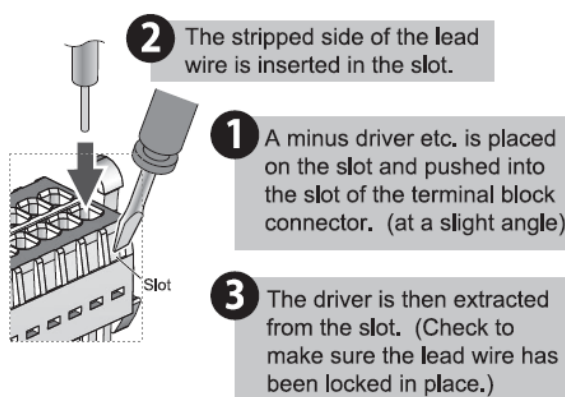
Wiring

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

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)

Slot

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.)

The images in this manual may vary in comparison to the actual product and are only for the purpose of illustration.
Specifications may change without notice due to continual product improvement.
Despite the cautions and warnings provided in this manual, it is not the responsibility of PATLITE for any failure or

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Documents / Resources

 PATLITE LA6-POE Multi Color LED Signal Tower [pdf] Instruction Manual
LA6-POE Multi Color LED Signal Tower, LA6-POE, Multi Color LED Signal Tower, Color LED Signal Tower, LED Signal Tower, Signal Tower