SUPER SLIM
Type : ME-A / MP
INSTALLATION MANUAL

Thank you very much for purchasing our PATLITE product.

- 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.
- After reviewing this manual, if there are any questions regarding this product, please contact the nearest PATLITE office listed on the back cover of this manual.

- Read this manual carefully prior to installation.
- Be sure to return this manual to the customer.

Safety Precautions

In order to prevent any damage to the user and other personnel or to assets, note the following:

- Make sure the power is off before wiring, repairing, or replacing parts to avoid a short-circuit, electric shock, or burn.
- Please use this product in a properly maintained condition. (If parts such as the Body or LED Unit are damaged, they should be repaired.)
- Do not use this product with the lens damaged or removed, or without the head cover in order to avoid an electric shock.
- If installing this product requires construction work, please ask a specialist in order to avoid electric shock, 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.
- Do not use this product to support your weight while climbing onto a machine. Mount the product so that it is clear of any moving parts - such as a machine cover.

Concerning replacement parts, such as LED unit, bulb or fuse, be sure to use those specified in this manual.
- For safety, make sure to connect an external fuse to the power source as shown in the wiring example.
- Do not substitute parts from other products as this may cause a breakdown.

Model Number Configuration

Type ME-A

- Body Length: Blank : 200mm, S : 40mm, L : 500mm
- Tier: 1~5 Tiers
- Luminous Color: R: Red, Y: Amber, G: Green, B: Blue, C: White
- Rated Voltage: 5V~24V DC

Type MP

- Body Length: Blank : 200mm, S : 40mm
- Tier: 1~5 Tiers
- Luminous Color: R: Red, Y: Amber, G: Green, B: Blue, C: White
- Rated Voltage: 5V~24V AC/DC

Part Names and Outer Appearance

Type ME-A

- Screw
- Head Cover
- LED Unit
- Body
- Name Plate
- Lock Nut
- Ground Housing

Type MES-A

- 1 Tier: 80
- 2 Tiers: 110
- 3 Tiers: 140
- 4 Tiers: 170
- 5 Tiers: 200

Type ME-A

- 1 Tier: 240
- 3 Tiers: 300
- 5 Tiers: 360

Type MES-A

- 1 Tier: 540
- 3 Tiers: 630
- 5 Tiers: 660

Unit:mm
4 Installation

⚠️ CAUTION
- The following requirements are necessary for proper installation.
  - Install where no excessive vibration is present.
  - Install on a strong surface.
  - Install in an upright position. (Do not install the Signal Tower sideways or inverted.)
- This product can only be used indoors. (Do not use it outdoors.)
- Use a soft cloth moistened with water when the LED Unit or Body must be cleaned up. (Do not use thinner, benzene, gasoline or oil.)
- When installing this product, do not use excessive torque, or the product may be damaged.
- During installation, do not remove the waterproof sheet, it will increase possible water penetration and may cause a malfunction. (Type MP only)

How to install

■ Type ME-A

1. Turn nut ① three threads (5 mm) or more.
2. Hold nut ① in one hand and tighten nut ② with the other hand as far as the plate surface.
3. Hold nut ① using an 24 spanner, and tighten nut ② using an 27 spanner.

■ Type MP

1. Install the waterproof sheet ② in the body, and through the mounting hole.
2. Please use the washer and the Hex. nut for installation. (Fasten it with the torque of 3.5±0.5N·m.)
How to perform wiring

- Turn the power OFF.
- Make wiring connection according to wiring example.
- When wiring 5 layers or less, please make wiring connection by increasing or decreasing external contacts in each layer according to wiring example.
- When using LED units of the same color, calculate the contact current capacity to be equal to the number of the LED units multiplied by the contact capacity for 1 light. (This is because current passes through one signal line for the multiple LED units of the same color.)
- When wiring is completed, insulate the end of each unused lead wire with insulation tape.
- Any questions regarding applications for multiple units, or other special operations, contact your nearest PATLITE Sales Representative before wiring.
- Fuse for protection of external contact should be installed within 305mm from the connected point of the power source wire.
- Use a “Class 2 Circuit” for the power supply source and be sure to use the fuse and fuseholders authorized by UL, Inc.
- Use the fuse conforming to the rated current of the machine which the product was installed on. (Example: Class J type fuse)

Wiring Example

- Wire Color Table

<table>
<thead>
<tr>
<th>Luminous Color</th>
<th>Wire Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>Red</td>
</tr>
<tr>
<td>Amber</td>
<td>Amber</td>
</tr>
<tr>
<td>Green</td>
<td>Green</td>
</tr>
<tr>
<td>Blue</td>
<td>Blue</td>
</tr>
<tr>
<td>White</td>
<td>White</td>
</tr>
</tbody>
</table>

  *All 5 wires (Red, Orange, Green, Blue, White) are connected regardless of the number of LED units.

- External Contact (Transistor) Capacity

<table>
<thead>
<tr>
<th>Type</th>
<th>ME-A</th>
<th>MP</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED Unit (Per Light) Current Consumption</td>
<td>Red: Amber - 25.2mA, Green - 23.5mA</td>
<td>Red: Amber - 29.0mA, Green - 23.5mA</td>
</tr>
<tr>
<td>Power Current Consumption</td>
<td>In ≥ 30mA, Vs ≥ 3V DC</td>
<td>In ≥ 30mA, Vs ≥ 3V DC</td>
</tr>
</tbody>
</table>

- External Fuse

  *Use the fuse conforming to the rated current of the machine which the product was installed on. (Example: Class J type fuse)

Changing LED Unit positions

- Make sure the power is off before wiring to avoid a short-circuit, electric shock, or burn.
- Do not remove the LED unit forcibly as it may damage the unit.
- When the center screw is loosened or removed, the LED units become unstable and may separate. Therefore, handle carefully to avoid damage.
- Handle the LED units carefully to avoid warping or damage when changing their positions on the tower.
- Screwing the head cover too tight may damage it. The recommended torque is about 0.6N·m.

Changing LED Unit positions

- Turn the power off before changing LED unit positions.
- Unscrew the head cover and remove the LED unit.
- The upper and lower LED units are secured to align the marks on the lens surface. (Type ME-A>PC<, Type MP>SAN<)
- When you join the bottom LED unit with the body, make sure the center of the LED unit is aligned with the chassis in the center of the body.
- (Make sure the marks on the lens surface is facing the same direction as the name plate. (Type ME-A>PC<, Type MP>SAN<))
- When changing the number of modules, install a center screw to match the number of tiers.

With marks (Type ME-A>PC<, Type MP>SAN<) aligned between the upper and lower units, press the two parts straight together.
Specifications

### Type ME-A

<table>
<thead>
<tr>
<th>Tiers</th>
<th>Model</th>
<th>U. Registration Model</th>
<th>Rated Voltage</th>
<th>Power Consumption</th>
<th>Mass</th>
<th>Wire type/Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Tier</td>
<td>ME-102A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Red/Amber 0.60W</td>
<td>0.22kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>ME-102A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Green/Blue/White 0.32W</td>
<td>0.12kg</td>
<td></td>
</tr>
<tr>
<td>2 Tiers</td>
<td>ME-202A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Red/Amber 0.60W</td>
<td>0.23kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>ME-202A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Green/Blue/White 0.32W</td>
<td>0.13kg</td>
<td></td>
</tr>
<tr>
<td>3 Tiers</td>
<td>ME-302A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Red/Amber 0.60W</td>
<td>0.24kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>ME-302A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Green/Blue/White 0.32W</td>
<td>0.14kg</td>
<td></td>
</tr>
<tr>
<td>4 Tiers</td>
<td>ME-402A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Red/Amber 0.60W</td>
<td>0.25kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>ME-402A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Green/Blue/White 0.32W</td>
<td>0.15kg</td>
<td></td>
</tr>
<tr>
<td>5 Tiers</td>
<td>ME-502A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Red/Amber 0.60W</td>
<td>0.26kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>ME-502A</td>
<td>ME-02A</td>
<td>24V DC</td>
<td>Green/Blue/White 0.32W</td>
<td>0.16kg</td>
<td></td>
</tr>
</tbody>
</table>

### Type MP

<table>
<thead>
<tr>
<th>Tiers</th>
<th>Model</th>
<th>U. Registration Model</th>
<th>Rated Voltage</th>
<th>Power Consumption</th>
<th>Mass</th>
<th>Wire type/Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Tier</td>
<td>MP-102</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Red 0.70W</td>
<td>0.21kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>MP-102</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Amber 0.71W</td>
<td>0.11kg</td>
<td></td>
</tr>
<tr>
<td>2 Tiers</td>
<td>MP-202</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Red 0.70W</td>
<td>0.23kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>MP-202</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Amber 0.71W</td>
<td>0.13kg</td>
<td></td>
</tr>
<tr>
<td>3 Tiers</td>
<td>MP-302</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Red 0.70W</td>
<td>0.25kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>MP-302</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Amber 0.71W</td>
<td>0.15kg</td>
<td></td>
</tr>
<tr>
<td>4 Tiers</td>
<td>MP-402</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Red 0.70W</td>
<td>0.27kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>MP-402</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Amber 0.71W</td>
<td>0.17kg</td>
<td></td>
</tr>
<tr>
<td>5 Tiers</td>
<td>MP-502</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Red 0.70W</td>
<td>0.29kg</td>
<td>UL1007/AWG22</td>
</tr>
<tr>
<td></td>
<td>MP-502</td>
<td>MP-02</td>
<td>24V AC/DC (50/60Hz)</td>
<td>Amber 0.71W</td>
<td>0.19kg</td>
<td></td>
</tr>
</tbody>
</table>

- This product is recognized as a UL standard.
- For recognition as a UL standard:
  - Use on a flat surface with a Type 1 Enclosure.
  - For type ME-A, maximum surrounding air temperature is at 40°C.
  - For type MP, maximum surrounding air temperature is at 60°C.
- This product conforms to EN standard 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.

**Caution**

- PATLITE Corporation disclaims all liability for any malfunction or damage occurring as a result of handling contrary to the instructions, cautions and warnings mentioned in this manual.
- Specifications may change without notice due to continual product improvement.