PATLITE®

B95100496 | B

Tiered Signal Tower

REVOLITE™

Complete Operation Manual

[TYPE: LA6]

PATLITE Corporation

1. Introduction

Thank you very much for purchasing our PATLITE product. Please read this comprehensive operation manual thoroughly before use. In addition, please store this manual for future reference when performing maintenance, repairs or inspections. When performing maintenance and repairs, etc., please be sure to reread this book.
If there are any questions concerning this product, please refer to the information on the last page to ask your nearest PATLITE Sales Representative.

1.1. Safety Precautions

The following symbols classifies the following precautions into two catagories and explains the level of harm inflicted when caution is disregarded while using this product.

Warning	Indicates an immediately dangerous condition: Failure to follow the instructions may lead to death or serious injury.
Caution	Indicates a potentially dangerous condition: Failure to follow the instructions may lead to slight injury or property damage.

1.2. For safe application, observe the following:

Warning

- Prior to installation and wiring, ensure the power is disconnected and the Main Unit is turned off. Failure to comply may result in electric shock.
- Be sure the wiring is correct. If an error is made in wiring, the internal circuit will be damaged and may cause a fire.
- Be sure the power source is in the voltage tolerance when using it. Failure to comply may result in malfunction or fire.
- Do not modify or disassemble the product. Possibility of fire or electric shock may occur. Refer to the "Troubleshooting" section, or ask for technical consultation from the addresses indicated in this manual for repair, etc. of this product.
- Be sure to request the installation and wiring be performed by a professional contractor. There is a risk of an electric shock, fire, or falling.
- When the product is mounted onto equipment, do not use it as leverage to climb onto the equipment, etc. Failure to comply will result in falling from a high place, or damage to the product.

Caution

- Avoid long exposure to the Alarm sound from a close distance. Failure to observe this may lead from irritation to permanent damage to the ears.
- Do not install the product in a location where vibrations exceeding the specifications exist. Failure to comply may result in the prevention of the product detaching and falling, causing injury to a passer-by, etc.
- Do not install the product in a location where vibrations exceeding the specifications exist. Failure to comply may result in the prevention of the product detaching and falling, causing injury to a passer-by, etc.

B Flashing/Alarm Specifications

- By all means, do not apply voltage to the Flashing/Pulse Enable Common line. Failure to comply may result in damage to the product.

Contrary to Warnings and Cautions indicated in this document, product failure due to mishandling, disassembly, modifications or natural disasters, etc. is not covered by any Warranty. Moreover, avoid any applications outside those indicated in this document.

Notice	Indicates something to observe before using this product. The disregard to this indication may lead to product malfunction or failure.
Notes	Indicates a notice regarding supplementary information or convenient explanation of this product.

Notice

- Connect an external fuse for a power supply circuit and the internal circuit protection of a Main Unit.
- Do not use in an environment exposed to strong radio waves or inductance noise. Failure to comply will result in malfunction due to the influence of noise.
- Do not use in an environment where corrosive gas is present. Possible cause of failure may occur.
- Discharge any static electricity from the body before handling static sensitive parts, such as the SD Card. 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.
- The parts which remove when performing work be careful of a head cover etc. not to lose.
- When this product is used for security purposes, it should be inspected daily and it is recommended this product should be used together with other security products in case a malfunction should occur.
- Don't do decomposition of those other than the place which a product can remove.
- Don't convert a product.
- The specify parts written in this book should be used for a replacement part at any cost.
- By following the attachment and the handling method written in this book, it can be used in respect of Type1 Enclosure being even. (For UL Standard Compliance)
- Use the regular "class 2" power source in UL1310. (For UL Standard Compliance)

B Flashing/Alarm Specifications

- The alarm sound is unidirectional, therefore it is most easily audible in the direction from the source. Position the signal tower so that the alarm sound is facing in the desired sound direction.
- Sound pressure may decrease if the Alarm is used in an environment which has water, steam, etc., nearby.

Notes

- This operation manual should be stored in a safe location and it is recommended to be periodically read before maintenance is performed.
- The written guarantee is enclosed in the operation manual.

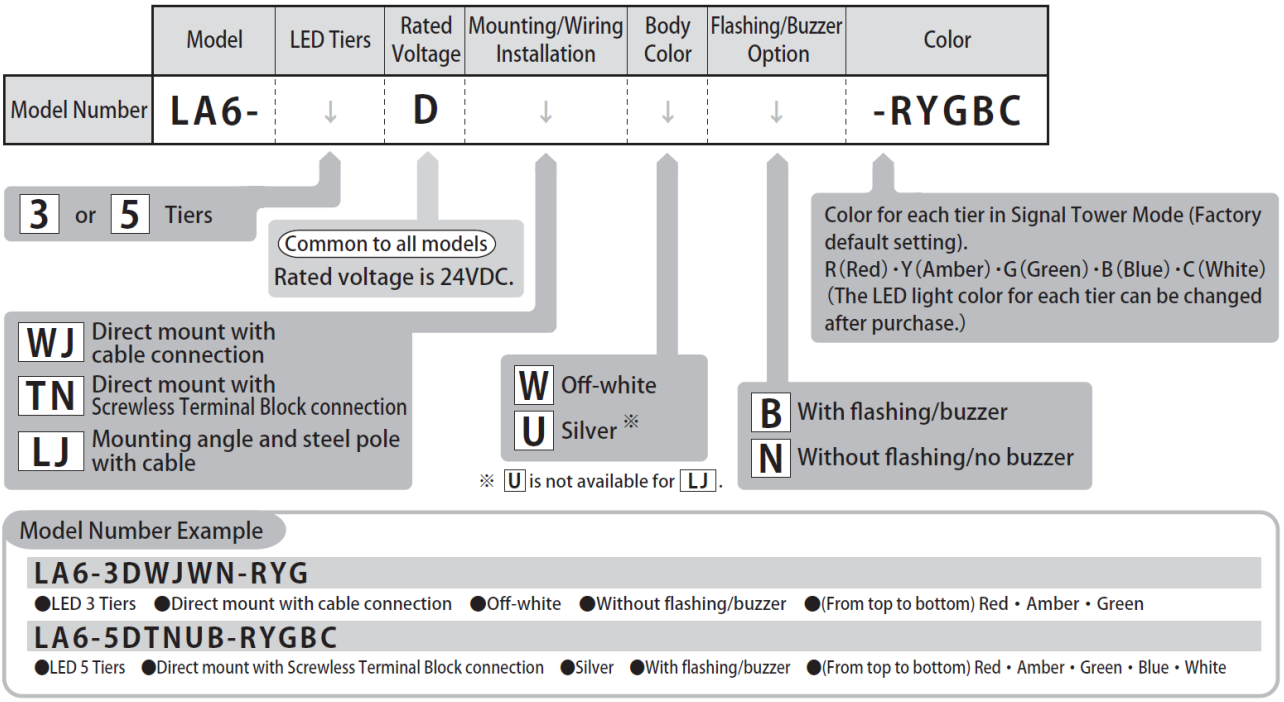
1.3. **About this Product**

This product is designed to display and announce information with LED lighting and alarm* functions for the operation state of major applications, such as equipment status, to indicate elapsed time, factory automation applications, waiting in line at institutions, such as stores, banks etc.

This product can be controlled with signal inputs to drive the Alarm and signal towers like a standard Signal Tower in the "Signal Tower Mode", but also has a new function, the "Smart Mode". In the "Smart Mode", the customer can use the binary input to create a diverse display of light flashing controls, like a level meter, dimming or chase-light controls, etc., with the setup of programmed data.

* Only for flashing / Alarm specifications

2. **Model Number Configuration**



Model Number Example

LA6-3DWJWN-RYG

●LED 3 Tiers ●Direct mount with cable connection ●Off-white ●Without flashing/buzzer ●(From top to bottom) Red • Amber • Green

LA6-5DTNUB-RYGBC

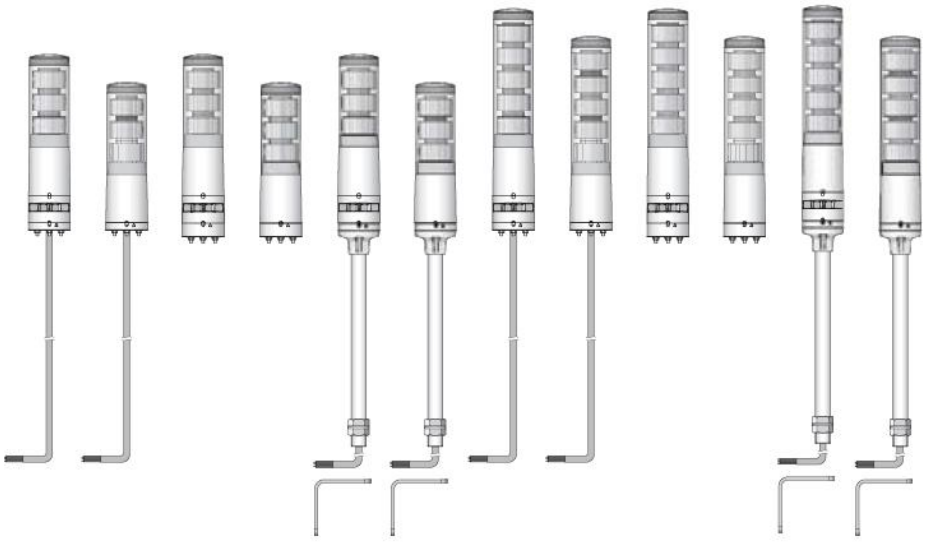
●LED 5 Tiers ●Direct mount with Screwless Terminal Block connection ●Silver ●With flashing/buzzer ●(From top to bottom) Red • Amber • Green • Blue • White

3. Part Names and Dimensions

3.1. Outer Appearance List

The full product appearance is indicated according to its model number. Refer to the model numbers as a reference to its appearance.

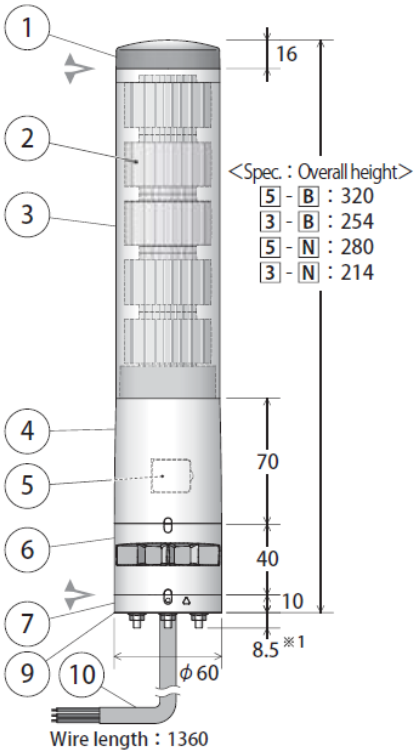
Number of Lens Tiers	3 lens tiers			5 lens tiers		
Mounting/Wiring Installation	WJ	TN	LJ	WJ	TN	LJ
Body Color	W Off-white / U Silver (Not available for the LJ Specification.)					
Flashing/Alarm Option	B N	B N	B N	B N	B N	B N



3.2. **Part Names and Outer Appearance**

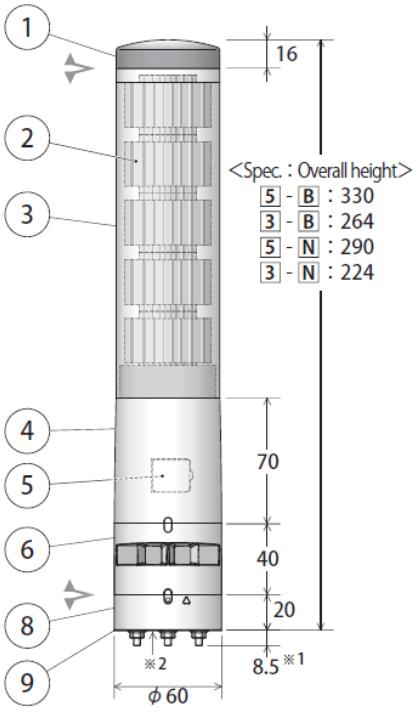
Each figure contains 5 lens tiers, with flashing and Alarm functions. For 3 lens tiers, the outer lens height will be shorter. Also, for specifications not including the flashing/Alarm functions, the product will not include a Alarm unit.

■ WJ Direct mount with cable connection



■ TN Direct mount with Screwless Terminal Block connection

(Unit : mm)



※1 Board thickness range is 4 mm or less.

※2 TN Spec. Underside View

Threaded bore for cable gland attachment (M16×1.5 Effective screw length 12mm)

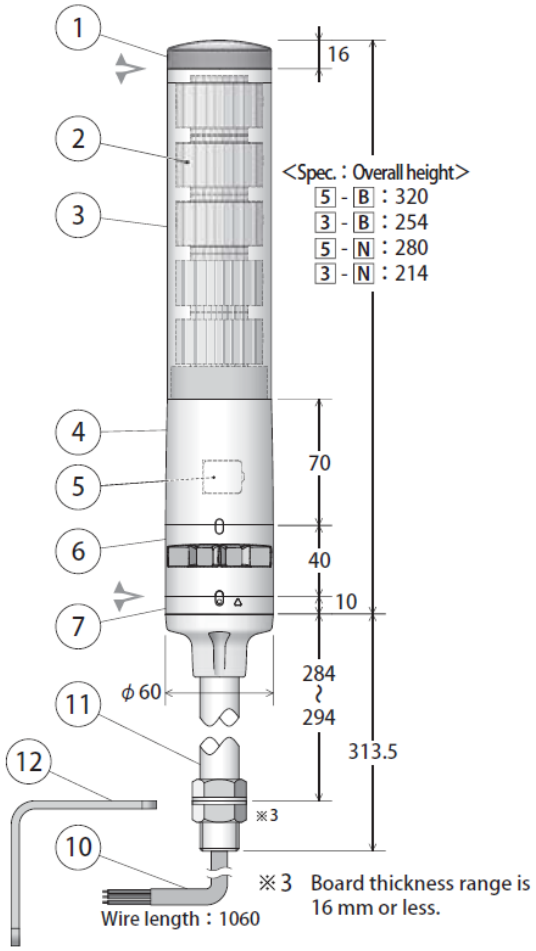
Cable gland

<Note> The cable gland is not included with this product.

14 Accessory Assembly WJ TN

Screw (M4x20)	3pcs.
Flanged nut (M4)	3pcs.

■ LJ Steel pole with mounting angle and cable



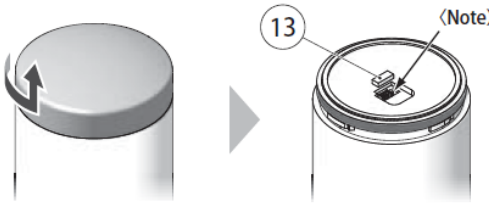
Number	Name	Material
1	Head Cover	ABS
2	Lens	PMMA
3	Outer lens	PC
4	Body	ABS
5	USB cover	ABS
6	Buzzer case	ABS
7	Direct-mount Bracket	ABS

Number	Name	Material
8	Terminal Block Bracket	ABS
9	Waterproof Packing	Urethane Foam
10	Cable	PVC
11	Pole	Steel Pipe
12	Mounting Angle	Steel Plate
13	Setup Button	ABS
14	Accessory Assembly	Steel

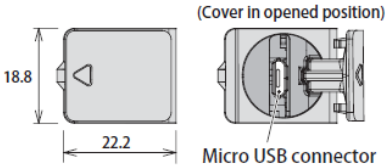
〈Note〉 The arrow mark (stackable mark) shows the part of the Main Unit (upper portion of bracket) which can be removed.
Do not disassemble any parts other than the parts indicated above.

(13) Setup Button (Head Cover removal)

Remove the head cover by turning it to the left to release it from the locked position. (Perform in the reverse for removal to re-assemble.)

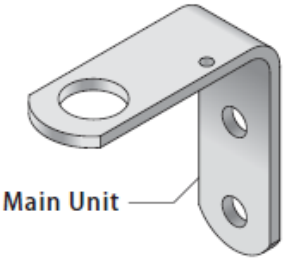


(5) USB cover parts in detail



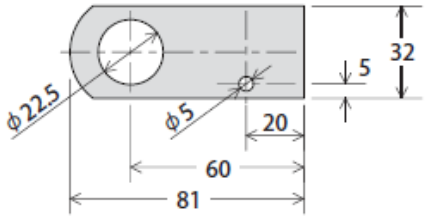
〈Note〉
- To open the USB cover, insert a minus driver (blade-edge width of 3 mm, thickness of 0.5 mm or less) in the indented part and lightly pry it open.
(If there is concern with scratching or damaging the Main Unit, it is recommended to use an object made of ceramics.)
- Ensure the USB cover is closed at all times.'If not securely closed, its waterproof performance will decrease.

3.3. **Attachment Angle Part Names and Dimensions**

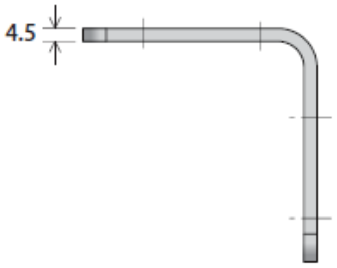


(Unit : mm)

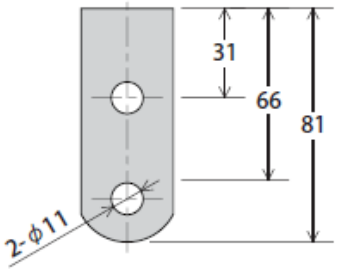
Top View



Side view

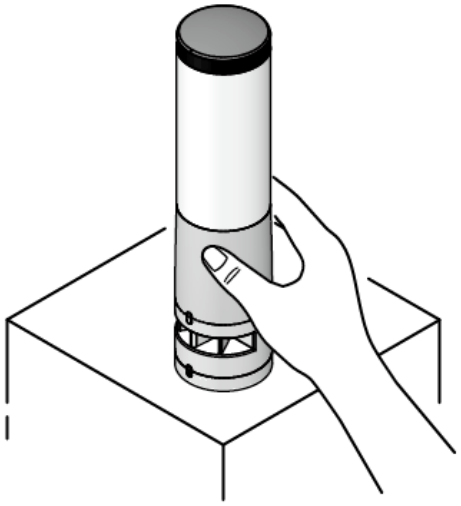


Rear view



4. **Mounting Direction**

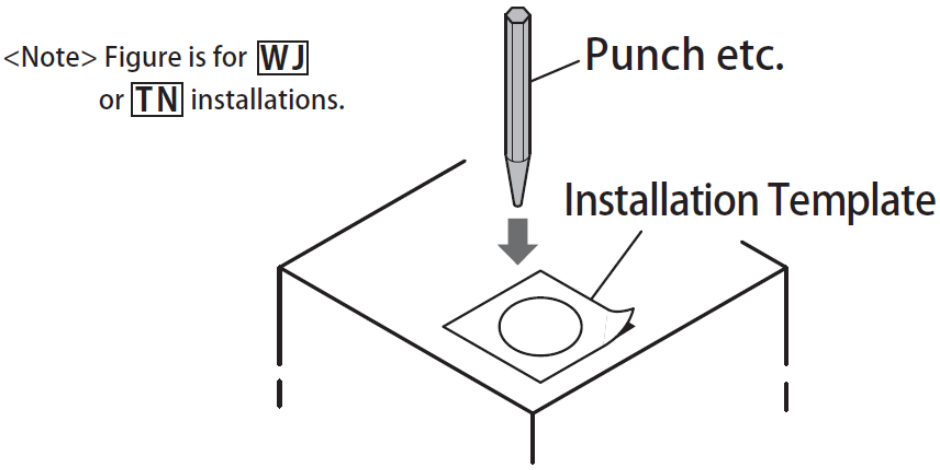
1 Check the installation location for the product before installing



Notes

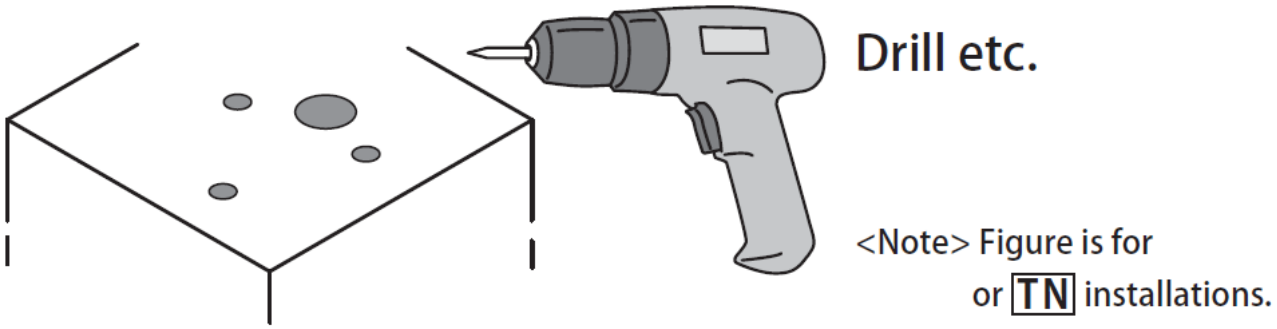
- Check whether it interferes with any other objects.
- Check whether wiring can be easily done.
- Check to be sure the USB cover can be opened and closed.
- Check whether the Alarm direction is correctly suitable. (B Flashing/Alarm Specifications)

2 Marking holes for wiring and installation



Use the attached installation pattern (-> enclosed in this product manual), and mark holes to make with a punch etc.

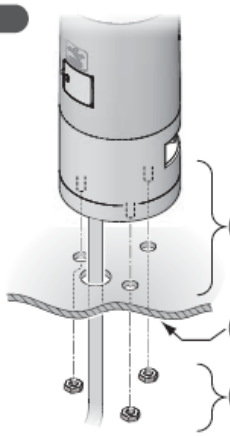
3 Making holes for wiring and installation



Use a drill, etc., to make holes for installation and wiring.

After Procedure (4), refer to the "Mounting / Wiring Installation" specifications.

For WJ Direct mount and cable model



4 Thread the wires through the wiring hole. Insert a mounting bolt into the installation hole.

6 Use waterproof sealing if needed.
(→ Point (P.21))

5 Attach the mounting nut from the back-side.

Recommended Torque	0.75 N·m (Standard)

For TN Direct Mount/Screwless Terminal Block model

5 With the body (N type), or buzzer unit (B type), turn it to the right to remove.

7 Assemble the body (N type) or buzzer unit (B type) is attached.

〈Notes〉 Do not pull the lead wire connected to the Terminal Block bracket and body (or buzzer unit).

6 Attach the wires
(→ 5 Wiring Example (P.22))

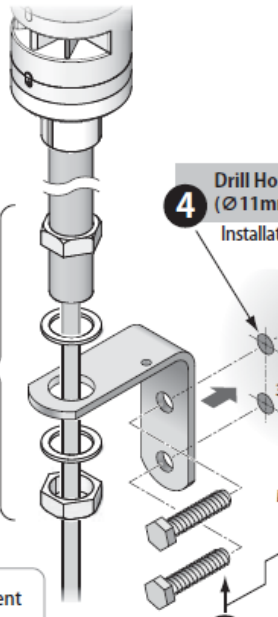
4 Fix the Terminal Block bracket in place with a nut.

Recommended Torque	0.75 N·m (Standard)

Threaded bore for cable gland attachment
(Effective Screw Length for M16x1.5 is 12 mm in length)

8 Use waterproof sealing if needed.
(→ Point (P.21))

For LJ Steel pole and the Mount angle with the cable model



4 Drill Hole
(Ø11mm in two places)
Installation Template (→P.29)

6 Feed the wiring through the hole and set the pole in place to install.

Recommended Torque
30 N·m (Standard)

35mm

Mounting Surface

Recommended Torque
12.2 N·m (Standard)

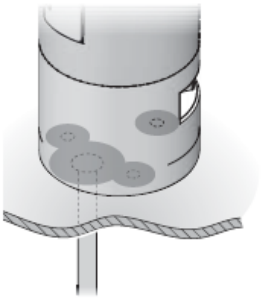
5 Use commercially available bolt nuts (M10) to fasten with.

Point

When not using an attachment angle, make a fitting hole of Ø22-23mm.

Point

If the installed environment exposes water, etc., to the back-side of the mounting surface, be sure to Use sealing on the mounting and distribution holes.



Use sealing to prevent water intrusion. (from the mounting back-side)

Warning

- The product should be turned off and the power supply disconnected prior to installation. Failure to comply may result in electric shock.

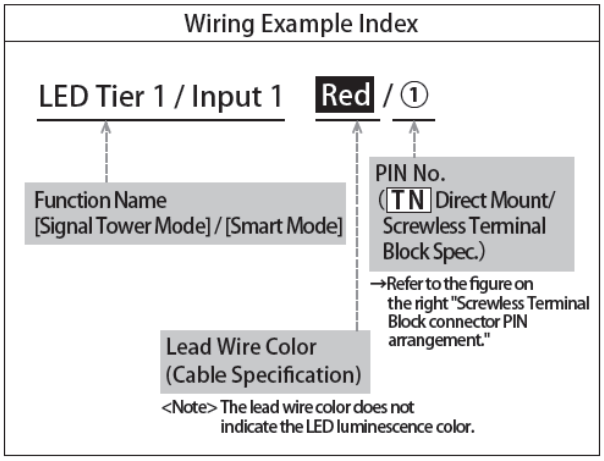
Caution

- The clamping surface should be sufficient enough to tolerate the weight and surface of the product. Do not use the product in a place where vibrations exceeds the specifications. Failure to comply may result in the prevention of the product detaching and falling, causing injury to a passer-by, etc.
- Only install the signal tower in an upright or inverted position. Failure to comply may result in the prevention of the product detaching and falling, causing injury to a passer-by, etc.
- Use a soft cloth, etc., dampened with water to wipe the main unit. If wiped with chemicals outside water (thinner, benzine, gasoline, oil, etc.), there is fear of product breakage.
- Do not do disassemble the product beyond its usable parts (3.23.2 Part Name and Dimensions). Failure to comply may result in product breakage due to disassembly.
- This equipment complies with FCC regulation part 15 for class A digital products, and applies to the following restrictions. These restrictions are limited to cases where this equipment is operated in a business district, and it is designed to take the relevant protective measures against electromagnetic noise hindrance.

5. **Wiring**

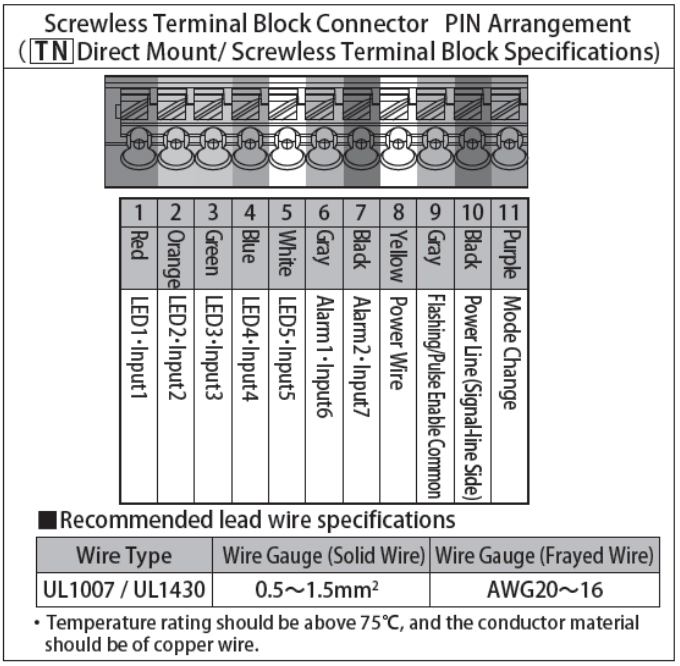
The wiring example indicates how to connect to external contacts for every classification.

If there are any special applications that require asking questions concerning this product, feel free to contact your PATLITE Sales Representative.



■Alarm Sound Pattern (Factory Default)

Alarm1	Alarm Sound No.1
Alarm2	Alarm Sound No.2
Alarm 1 and Alarm 2 Entered Simultaneously	Alarm Sound No.9

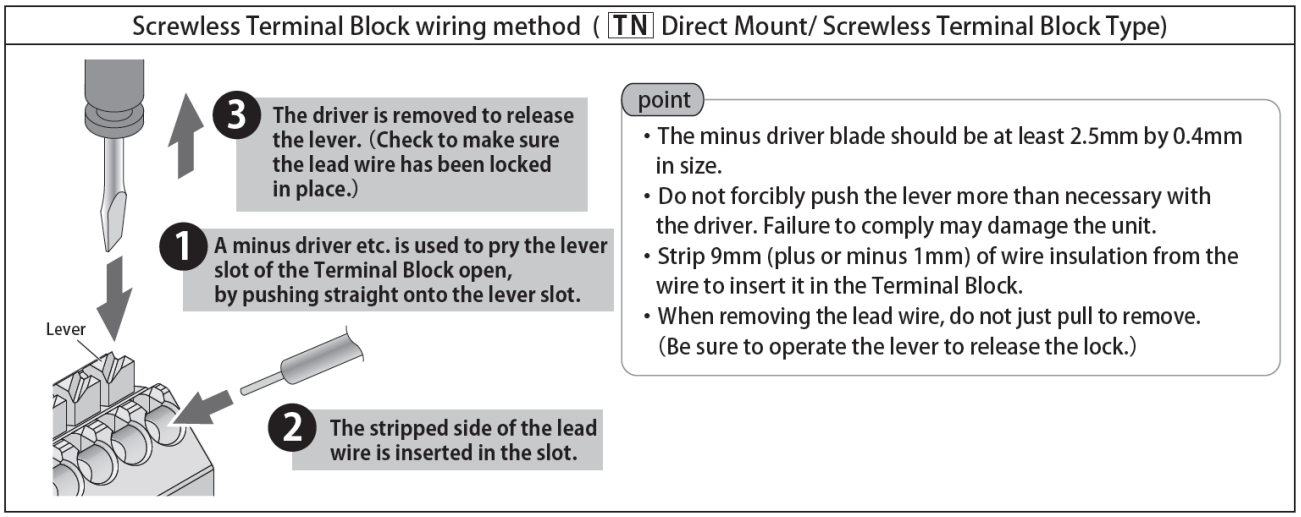


■Recommended lead wire specifications

Wire Type	Wire Gauge (Solid Wire)	Wire Gauge (Frayed Wire)
UL1007 / UL1430	0.5～1.5mm²	AWG20～16

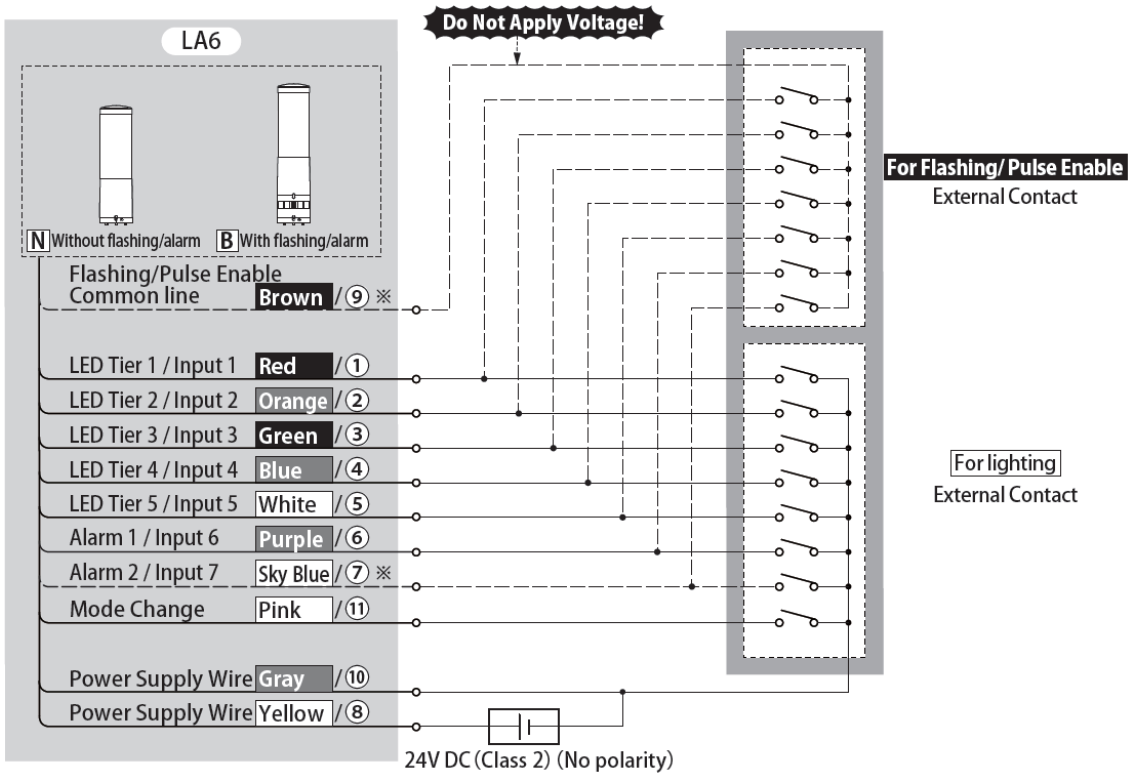
• Temperature rating should be above 75℃, and the conductor material should be of copper wire.

* For the Mode switch-over, refer to "6. How to Use" for further details.



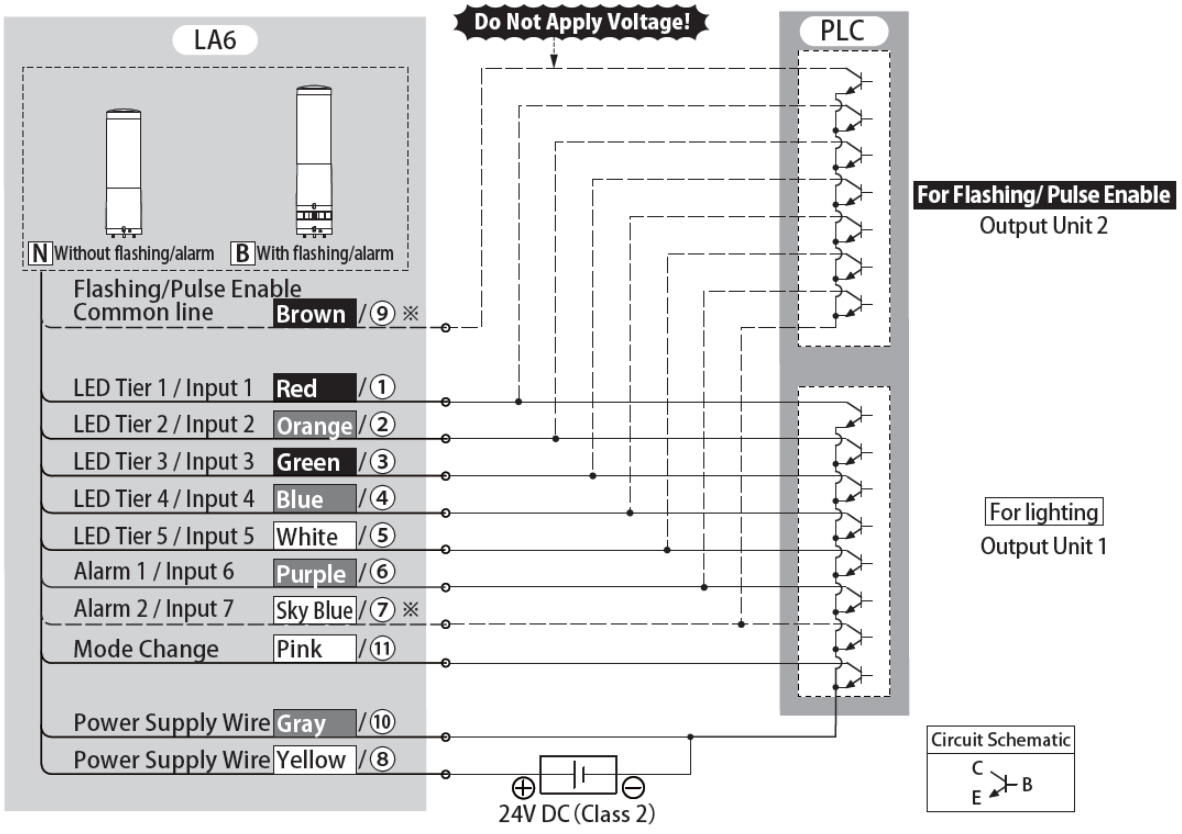
* When lighting and flashing are used together in the Signal Tower mode with a PLC, it is necessary to separate the flashing and non-flashing circuit outputs on the PLC side.

When connected to powered relay contacts



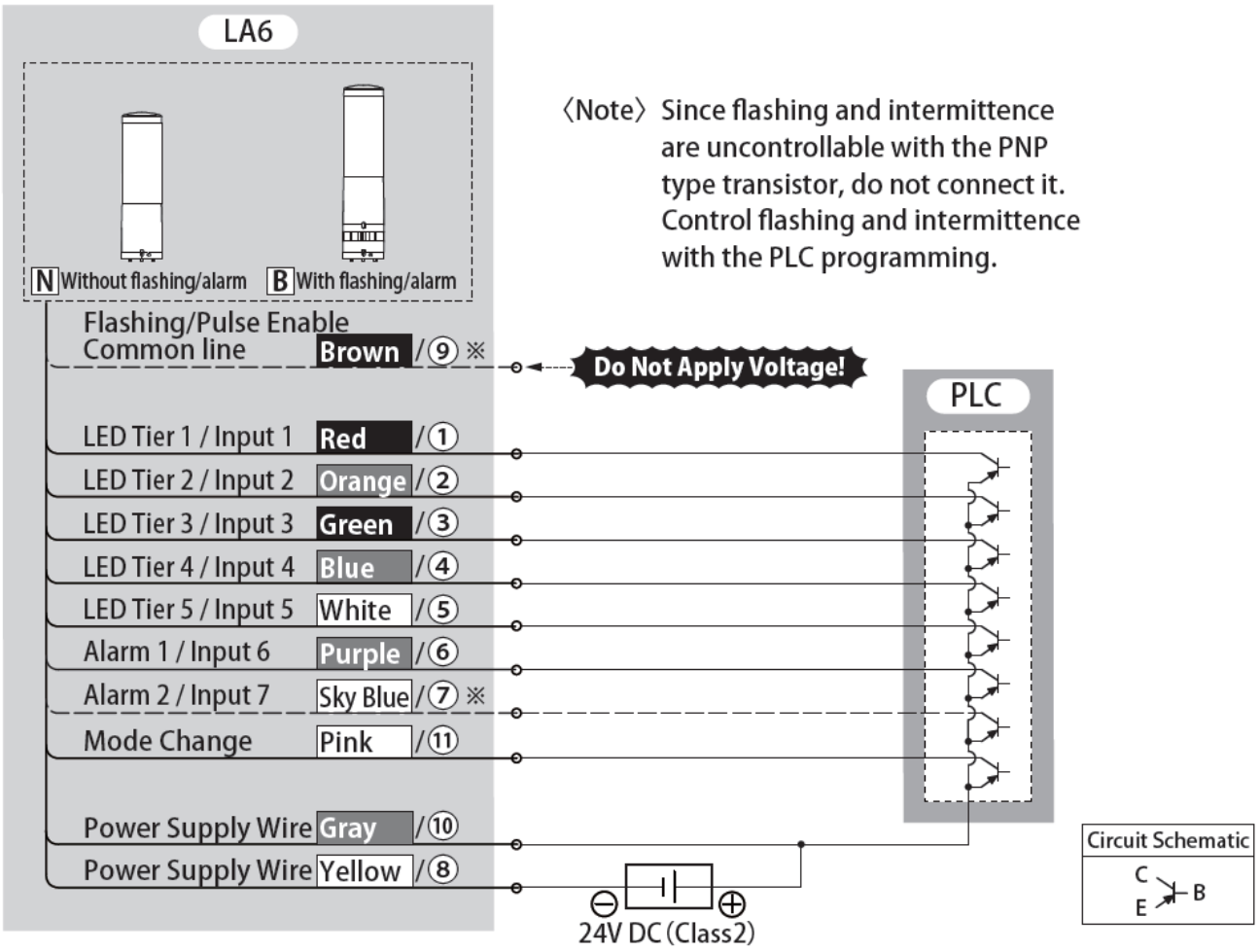
* B Only for flashing / Alarm specifications

When connected to a PLC (NPN type transistor)



* B Only for flashing / Alarm specifications

When connected to a PLC (PNP type transistor)



* B Only for flashing / Alarm specifications

- When not connected to the Power Supply Wire (Gray /(10)), a supply current and inrush current is still present. When selecting an external contact within the allowable contact capacity, refer to Tables 1, 2 and 3 on the following page.

External Contact Classification
Voltage Contact Relay or PLC

※1 B Flashing/alarm Specifications only.
※2 There is no inrush current on Pink wire for mode change.

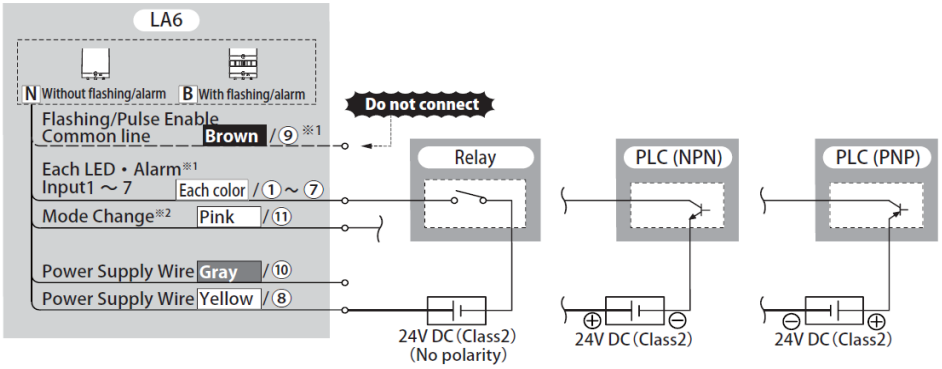


Table 1 Signal Contact Capacity

Current Capacity	100mA or more
Withstand Voltage	DC35 V or more
Leakage Current	0.1mA or less
ON Voltage (Vsat)	1V or less

Table 2 Power Supply Inrush Current

Inrush Current Value
16A / 5us

Table 3 Supply Current

Model	Current
LA6-3D□□□N	170 mA
LA6-3D□□□B	210 mA
LA6-5D□□□N	260 mA
LA6-5D□□□B	300 mA

Warning

- The power supply should be turned off prior to wiring, at any cost. Failure to comply may result in electric shock.
- Be sure the wiring is correct. If an error is made in wiring, the internal circuit will be damaged and may cause a fire.

Caution

- Strip 9mm (±1mm) of wire insulation from the wire to insert it in the Terminal Buss. If longer than this, it may result in electric shock or short-circuiting. (TN Direct Mount/ Terminal Buss Specifications)
- Wire the product so that the lead wire does not protrude from the terminal. Failure to comply may result in electric shock or short-circuiting. (TN Direct Mount/ Terminal Buss Specifications)
- It is not necessary to connect to an external lead for tiers not used. When an extra lead is not connected, it should be individually insulated with electrical tape or something similar. Failure to comply may result in electric shock or short-circuiting.
- Do not pull the lead wire or push it inside the body. Failure to comply may result in product damage or short-circuiting.

Notice

- Be sure to check for proper wiring before connecting the power.
- To counter against noise, shorten all wiring as much as possible, and use shielded wire when possible. In addition, separate any signal lines which pass along high voltage cables or is susceptible to receive induction noises.
- If a non-voltage contact, such as a relay or switch etc., is used for the power supply line, consider inrush current capacity when selecting the contact. Contact welding and malfunction will occur if current capacity is insufficient.

Notes

- Even when starting two or more units simultaneously, a lag will occur during flashing or the Alarm sound.

6. **Operating Directions**

The operation of this product contains two modes; "Signal-Tower Mode" and "Smart Mode". The explanation for each mode shows fairly significant differences to them.

Changing between the Signal-Tower mode and the "Smart Mode" is a simple ON/OFF in the "Mode Change".

Mode Switch ON: Smart Mode

Mode Switch OFF: Signal Tower Mode

Although a fundamental level hold controls the inputs, only a trigger input in the pulse trigger type for the smart mode turns into a one shot input. The "Mode Switch" can also be used for the recombination of colors, changing the amount of Alarm sounds, and product initialization sequences.

6.1. **Signal-Tower Mode**

The Signal Tower Mode controls operation with ON/OFF inputs from the wires currently assigned to each LED and Alarm, like our conventional Signal Towers. When short-circuiting each input to the "Flashing/Pulse Enable Common", The LED will flash, and an intermittent Alarm sound will occur.

The Signal Tower Mode set up can be done in our REVOLITE EDITOR (Free download from our company's Homepage).

●**The set up**

This type can be set up as shown in the following table.

Setting Index	Description
LED Lighting/flashing	Flashing rates are selectable from 30 times per minute, 60 times per minute, or 120 times per minute.
Alarm Tone	Alarm Silence or one tone can be selected from 11 kinds.
LED Color	LED lights On or Off can be selected.

●LED Input Conversion Table

For inputs 1-7, LED and Alarm ON/OFF can be entered into the diagram.

Table 3. Signal Tower Mode Input Conversion Table

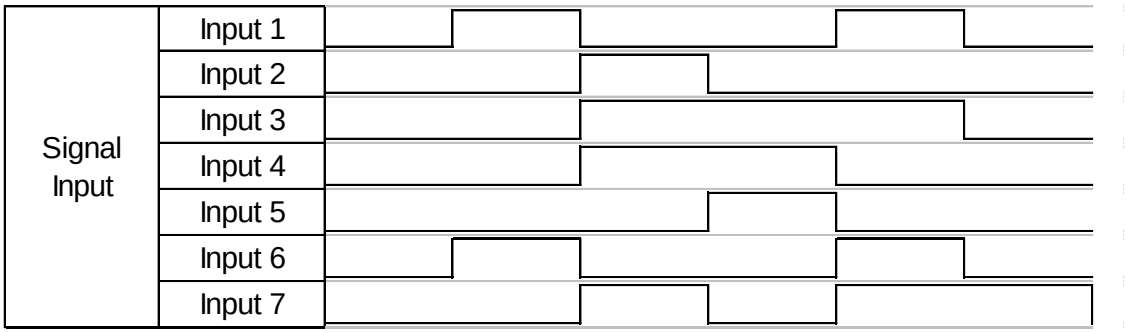
Input	Output	
1	LED Tier 1 (Red)	
2	LED Tier 2 (Amber)	
3	LED Tier 3 (Green)	
4	LED Tier 4 (Blue)	
5	LED Tier 5 (White)	
6	Alarm 1 Tone No.1	Alarm 3 Tone No.9 * When inputs are simultaneously entered
7	Alarm 2 Tone No.2	

* Factory settings

●Operation Example

For inputs 1-7, an example of an output of the operation is shown.

Operating Condition	LED Tier 1	Off	Red	Off	Off	Red	Off
	LED Tier 2	Off	Off	Amber	Off	Off	Off
	LED Tier 3	Off	Off	Green	Green	Green	Off
	LED Tier 4	Off	Off	Blue	Blue	Off	Off
	LED Tier 5	Off	Off	Off	White	Off	Off
	Buzzer	Mute	Tone 1	Tone 2	Mute	Tone 3	Tone 2



* Factory settings

6.2. **Smart Mode**

There are three kind of modes, "Time-trigger Type", "Pulse Trigger Type", and "Single-display Type".
The factory default input is the time trigger type, but there is a pulse trigger type and single display type, of which each type can be changed by the setup, which means it is necessary to create the setup data and transmit it to the product with a personal computer which has the REVOLITE EDITOR (Free download from our company Homepage) installed in it. (Refer to "7. Changing Data" for details on how to change the data)
For details, please refer to the software help section.
The main mode has common functions for each type and has the following at this mode.

●Input 6 (mute input)

The Alarm sound stops when an "ON" input occurs, and muffles the sound.

●Input 7 (clear input)

If an input for each type is set to ON, the pattern contents which are controlling the operation will be initialized and it will return to the first pattern. Also, LED's from all the tiers will go out at an "ON" input, and the Alarm is also muffled.
Refer to each type to for the explanation of how they should look.

Notice

- The "Flashing/Pulse Enable Common" wire cannot be used in the smart mode.

Time-trigger Type

The Time Trigger function has 63 set patterns to which the memory contains two or more patterns used as a series of wave-like flows, etc. that can be used in groups. The time trigger operates in accordance with time, and the pattern transition timing operates during this group operation. In addition, the maximum memory of 15 groups can be set up in ON/OFF combinations, and a call is made to inputs 1-4.

Moreover, the time trigger type for input 5 turns into a STOP input, and during the input, operates by either one of the following contents, and stops the time progress of the pattern changes.

- STOP input of a pattern currently on display to change to a lighted state.
- STOP input of a pattern currently on display to change to a flashing state.
- STOP input of a special pattern currently on display to change to a lighted state.
- STOP input of a special pattern currently on display to change to a flashing state.

The setup to select these can be performed in the REVOLITE EDITOR (it is free download in our company HP).

●The set up

This type can be set up as shown in the following table.

Set up range	Setting Index	Description
Every Group	Display Repeats	When even the last set-up pattern changes and display time is exceeded, it is either selected to return to the head pattern of the group, or is considered as the last pattern.
	Display Time Unit	Every 1 second and every 0.1 seconds are selected for the display time in units, to be set up for each pattern.
	STOP Input Operation	A STOP input can be selected for four operations when turned "ON".
Every Pattern	Display Time	Select the time until a pattern changes to the next pattern.
	LED Lighting/flashing	Select all LEDs to turn on or flash. Flashing rates are selectable from 30 times per minute, 60 times per minute, or 120 times per minute.
	Alarm Tone	Alarm Silence or one tone can be selected from 11 kinds.
Every Tier	LED Color	LED lights On or Off can be selected.

●Group Input Conversion Table

For inputs 1-4, group No. in the combination of ON/OFF can be put into the diagram.

Table 1. Time Trigger Type Input Conversion Table

Group No.	Input 1	Input 2	Input 3	Input 4
1	ON			
2		ON		
3	ON	ON		
4			ON	
5	ON		ON	
6		ON	ON	
7	ON	ON	ON	
8				ON
9	ON			ON
10		ON		ON
11	ON	ON		ON
12			ON	ON
13	ON		ON	ON
14		ON	ON	ON
15	ON	ON	ON	ON
An empty cell indicates the "OFF" condition.				

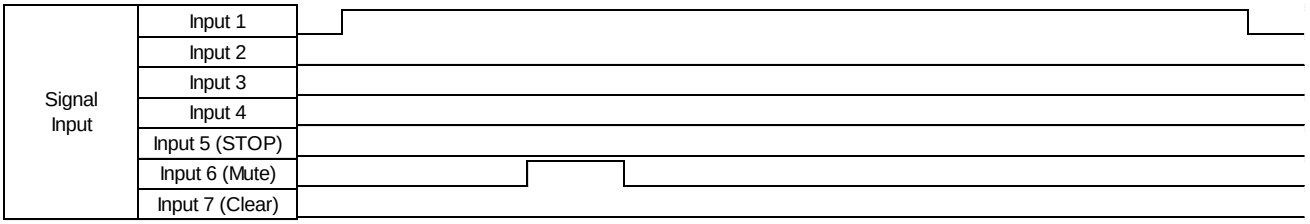
* With a time trigger type, an "ON" status on input 7 can cause the clearance (reset) of the operation, an "ON" status on input 6 can cause a Alarm mute, and an "ON" status on input 5 can cause a STOP in time progress of the pattern changes.

●Operation Example

The folloing are examples of the time trigger type operation. In addition to time progress and pattern changes, the figure also shows the mute input operation.

[Group/Pattern No.]

Operating Condition	LED / Buzzer	Off / Mute	1/1	1/2	1/3	1/4 / Mute	1/5	...	1/60	1/61	1/62	1/63	Off / Mute

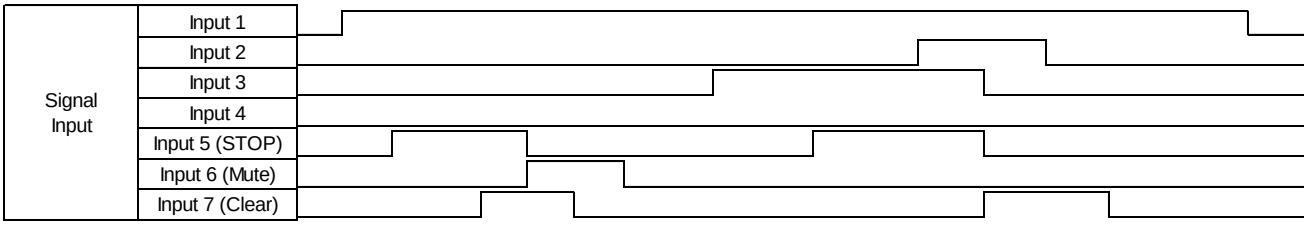


* The time trigger type operating state is an example for setting data.

In addition to time progress and pattern changes, the figure also shows the STOP input operation, the mute input, and the clear input. A STOP input setup shows an indication of the pattern at a STOP input by flashing.

[Group/Pattern No.]

Operating Condition	LED / Buzzer	Off / Mute	1/1	1/2 (STOP)	Clear	1/1 / Mute	1/2	5/1	5/2	5/3 (STOP)	Clear	1/1	1/2	Off / Mute



* The time trigger type operating state is an example for setting data.

Pulse-trigger Type

The pulse-trigger type is operated like a time trigger type for a group. However, with the pattern transition timing, it is only used as a one shot pulse for input 5.

The memory of the a maximum of 15 groups can be done, and the combination of ON/OFF to the inputs 1-4 performs a call. This setup can be made in the REVOLITE EDITOR (Free download at our company's Homepage).

●The set up

This type can be set up as shown in the following table.

Set up range		Setting Index	Description
Every Pattern		LED Lighting/flashing	Select all LEDs to turn on or flash. A flashing is selected from the speed for /- 120 times by /- 60 times by /30 times.
		Alarm Tone	Alarm Silence or one tone can be selected from 11 kinds.
	Every Tier	LED Color	LED lights On or Off can be selected.

●Group Input Conversion Table

For inputs 1-4, group No. in the combination of ON/OFF can be put into the diagram.

Table 2. Pulse Trigger Type Input Conversion Table

Group No.	Input 1	Input 2	Input 3	Input 4
1	ON			
2		ON		
3	ON	ON		
4			ON	
5	ON		ON	
6		ON	ON	
7	ON	ON	ON	
8				ON
9	ON			ON
10		ON		ON
11	ON	ON		ON
12			ON	ON
13	ON		ON	ON
14		ON	ON	ON
15	ON	ON	ON	ON
An empty cell indicates the "OFF" condition.				

* With a pulse trigger type, an "ON" state on input 5 (one shot pulse), can make a pattern change, an "ON" state on input 6 can cause the Alarm to mute, and an "ON" state on input 7 can cause a clear (reset) of the operation.

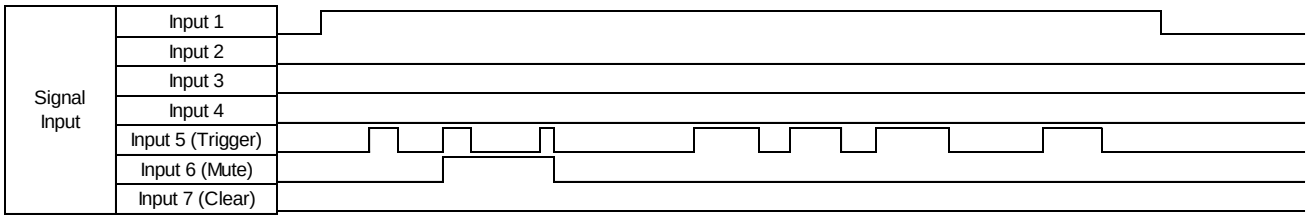
●Operation Example

The following are examples of the pulse-trigger type operation.

In addition to trigger input and pattern changes, the figure shows the operation of the mute input.

[Group/Pattern No.]

Operating Condition	LED / Buzzer	Off / Mute	1/-	1/1	1/2 / Mute	1/3	...	1/60	1/61	1/62	1/63	Off / Mute

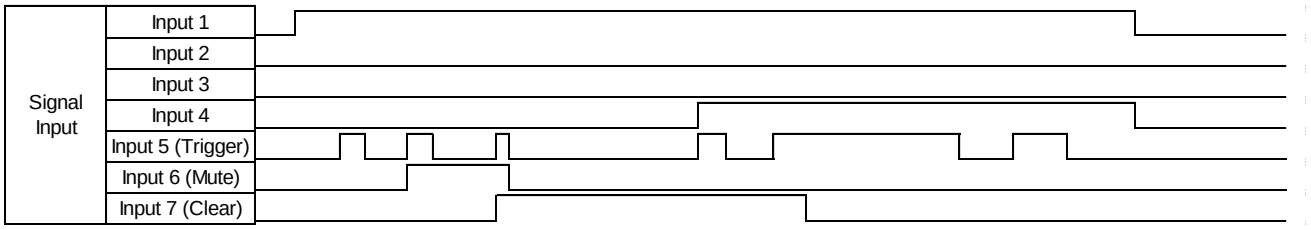


* The pulse trigger type operating state is an example for setting data.

In addition to trigger input and pattern changes, the figure shows the operation of the mute input and the clear input.

[Group/Pattern No.]

Operating Condition	LED / Buzzer	Off / Mute	1/-	1/1	1/2 / Mute	Clear	9/-	9/1	Off / Mute



Notes

The one shot trigger input pulse acquires only the rise-time of the input. Refer to "8.2. Trigger input signal time chart" for more details.

Single-display Type

There are 31 pattern varieties with the product's internal memory that can be used in combination of ON/OFF inputs from signal wire inputs 1-5 to operate the LED display colors. Although the flashing/Alarm functions can be used, the LED wave-like color flow, etc., cannot be used.

The setup for each pattern can be made in the REVOLITE EDITOR (Free download at our company's Homepage).

●The set up

This type can be set up as shown in the following table.

Set up range		Setting Index	Description
Every Pattern		LED Lighting/flashing	Select all LEDs to turn on or flash. Flashing rates are selectable from 30 times per minute, 60 times per minute, or 120 times per minute.
		Alarm Tone	Alarm Silence or one tone can be selected from 11 kinds.
	Every Tier	LED Color	LED lights On or Off can be selected.

●Input Pattern Conversion Table

For inputs 1-5, Pattern numbers in combination of ON/OFF can be put into the diagram.

Table 3. Single Display Type Input Conversion Table

Pattern No.	Input 1	Input 2	Input 3	Input 4	Input 5
1	ON				
2		ON			
3	ON	ON			
4			ON		
5	ON		ON		
6		ON	ON		
7	ON	ON	ON		
8				ON	
9	ON			ON	
10		ON		ON	
11	ON	ON		ON	
12			ON	ON	
13	ON		ON	ON	
14		ON	ON	ON	
15	ON	ON	ON	ON	
16					ON
17	ON				ON
18		ON			ON
19	ON	ON			ON
20			ON		ON
21	ON		ON		ON
22		ON	ON		ON
23	ON	ON	ON		ON
24				ON	ON
25	ON			ON	ON
26		ON		ON	ON
27	ON	ON		ON	ON
28			ON	ON	ON
29	ON		ON	ON	ON
30		ON	ON	ON	ON
31	ON	ON	ON	ON	ON

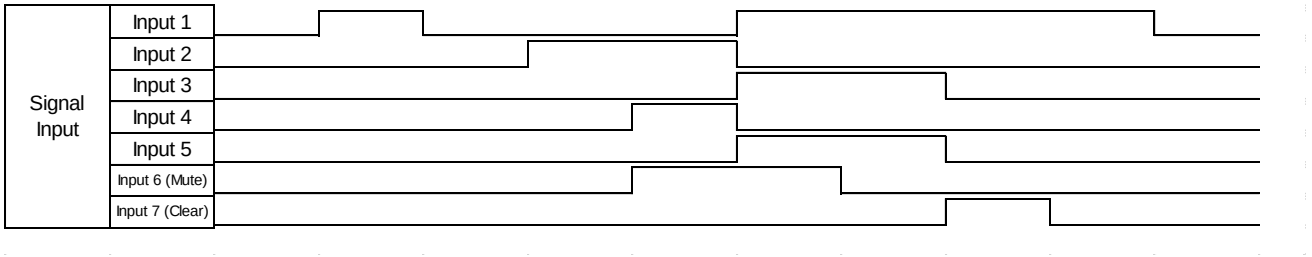
An empty cell indicates the "OFF" condition.

* For a single display type, with an "ON" status on input 6, a clear (reset) operation can be done, and an "ON" status on input 7 can cause the Alarm to be muted.

●Operation Example

The following are examples of the single display type operation.

Operating Condition	LED / Buzzer	Off / Mute	Pattern 1	Off / Mute	Pattern 2	Pattern 10 / Mute	Pattern 21	Clear	Pattern 1	Off / Mute

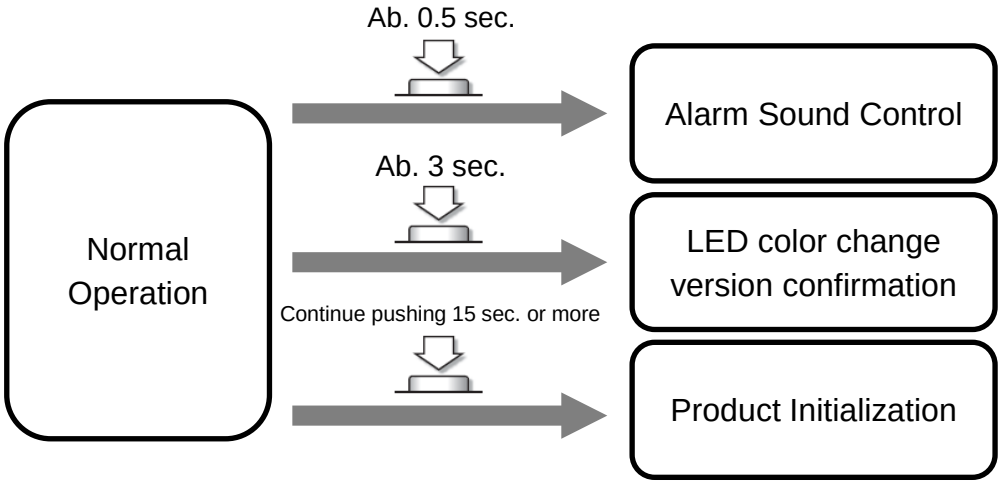


6.3. **Mode Switch Operation**

The following operations can be controlled by the Mode Switch.

- Alarm Sound Control
- LED Color Change
- Version Confirmation
- Product Initialization

The following figure shows the timing of when pushing the Mode Switch can perform these operations.
As a caution, no signal inputs are received during each setup.

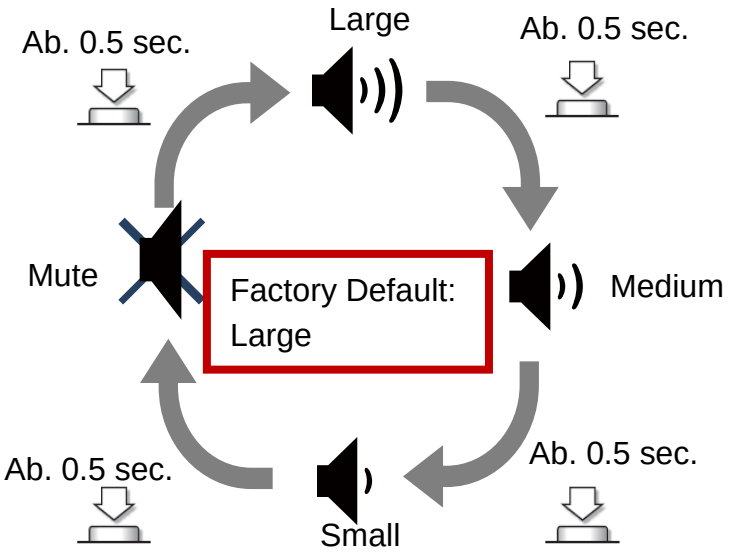


Notes

Operate the Mode Switch when there is no signal input.

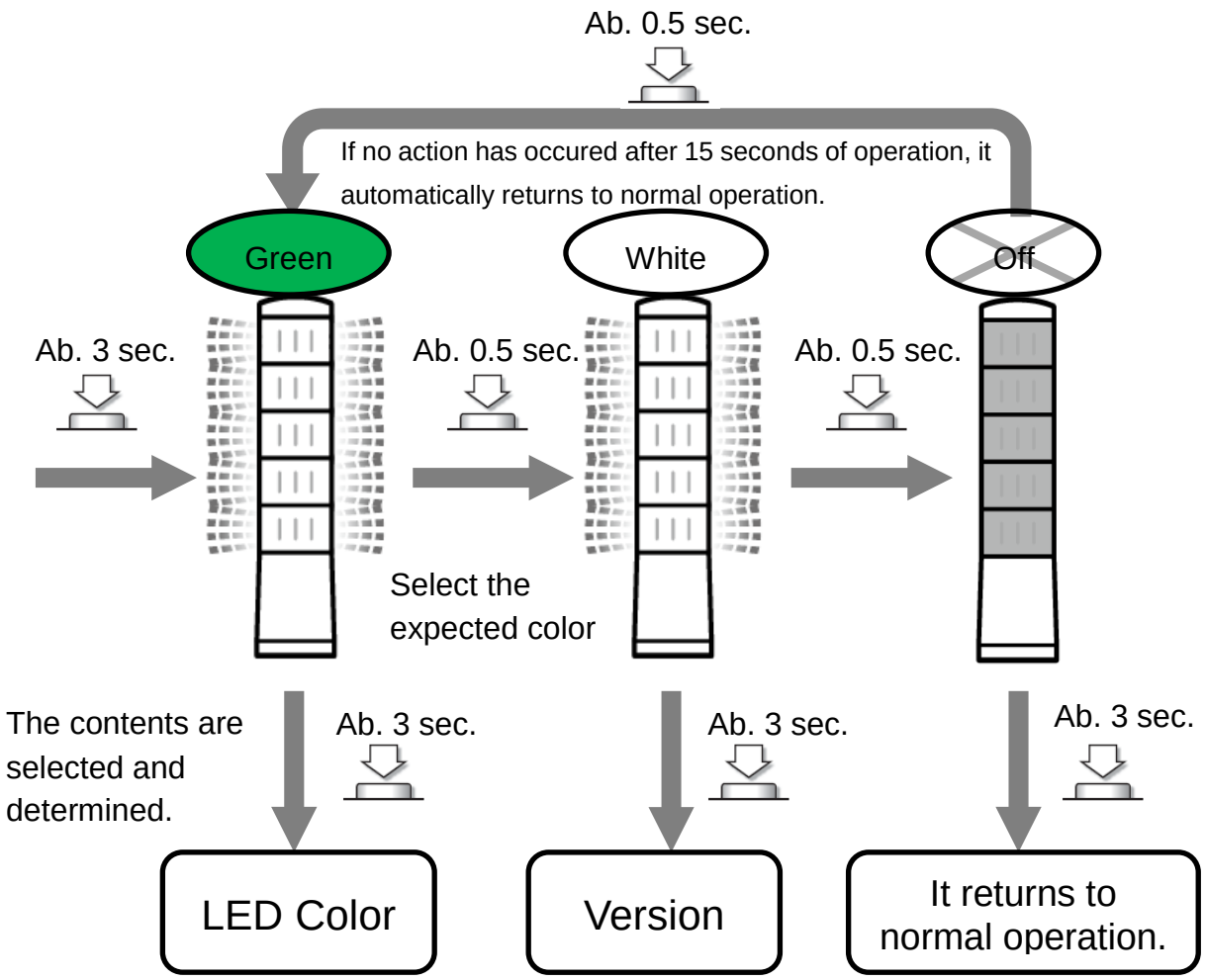
●Alarm Sound Control

The Alarm sound adjustment is done by pushing the Mode Switch for about 0.5 seconds. Whenever the Mode Switch is pushed, the volume changes in the order according to the following figure, and a beep sound is heard with the changing of the volume. Volume adjustment is completed when the beep sound is done.



●LED color change and version confirmation selection

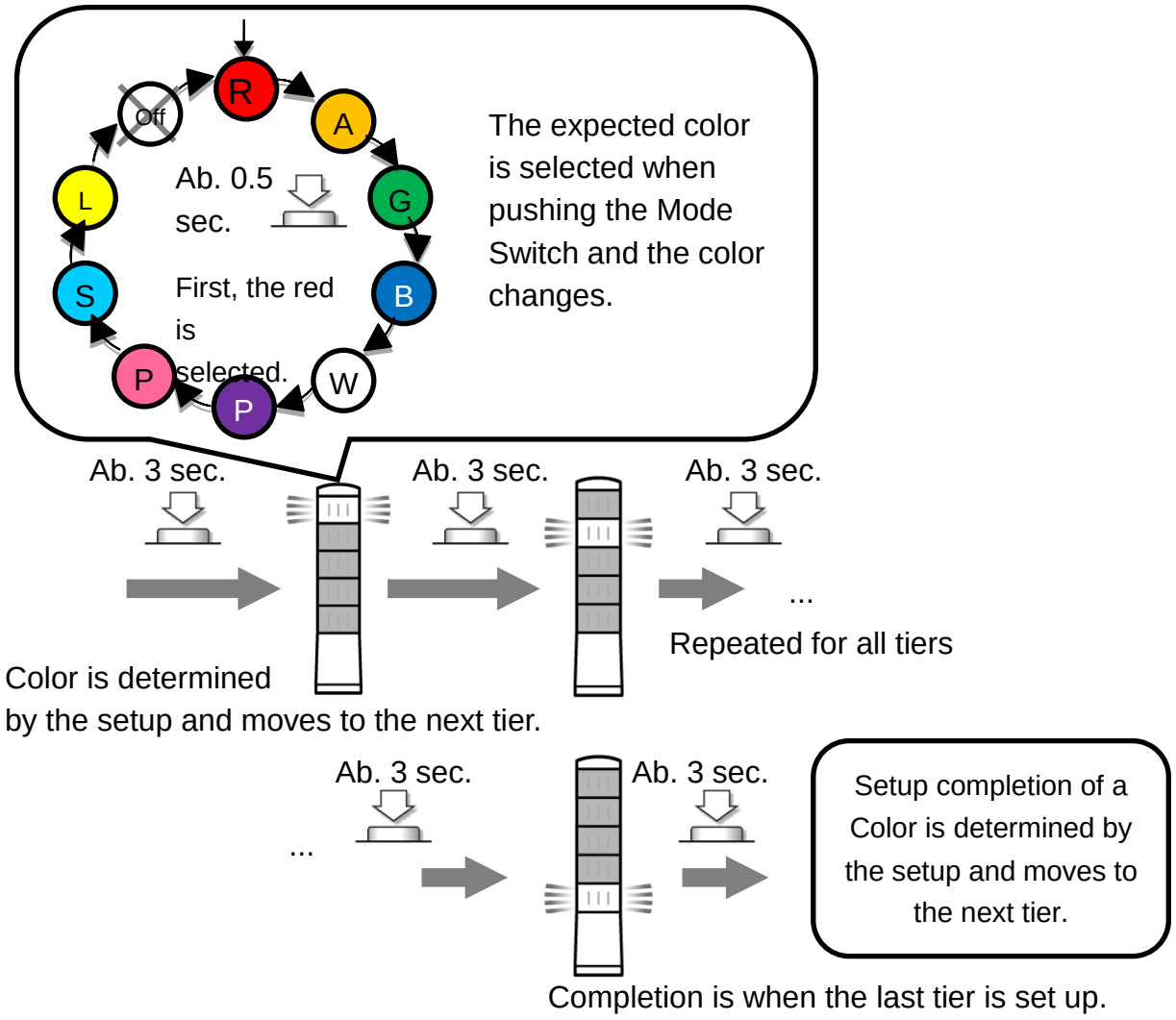
When all LED tiers flash a green color, the LED color change or version confirmation can be selected because it is in that status. As shown in the following figure, when the Mode Switch is pushed for about 0.5 seconds, 3 different selections for the LED color change, version confirmation, and return to the normal mode can be selected. Once the selection is made, if the Mode Switch is pushed somewhat longer (about 3 seconds), then the mode goes into the contents selected.



●LED color change

The LED color which operates in the Signal Tower mode can be changed. First, the LED color change starts from the1st tier where the red LED turns on. As shown in the following figure, whenever it pushes a Mode Switch short (about 0.5 second), the 1st step of LED lighting color changes in order.

To change the LED color to a different preference, by pushing the Mode Switch somewhat longer (about 3 seconds), the expected color status that is on, such as the 1st LED tier color, can change to the next LED tier color, such as the 2nd LED tier color, by selecting the desired lighted state. Once the last LED tier color is changed and the Mode Switch is pushed somewhat longer (about 3 seconds), like with the 1st LED tier, all LED color changes are complete.



—

Notes

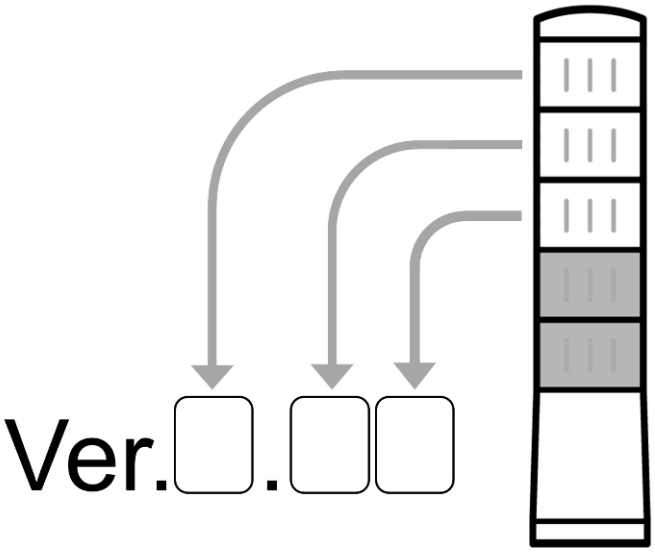
- If there is a tier which does not change color, be sure to reset all tiers and do over.
- None of the LED tier colors are saved until the last tier is set up.
- If the operation is not done within 15 seconds or more, the LED colors return to normal operation without saving the selected LED colors.

●Version Confirmation

To verify the firmware version, three LED tiers will flash in accordance to the current firmware version, indicated from top to bottom. The following table indicates the meaning for each flashing LED color and the corresponding number.

LED Color	Corresponding Number
Off	0
Red	1
Amber	2
Green	3
Blue	4
White	5
Purple	6
Pink	7
Sky-blue	8
Lemon	9

The version is expressed in the order from the LED top to bottom, as shown in the figure below.

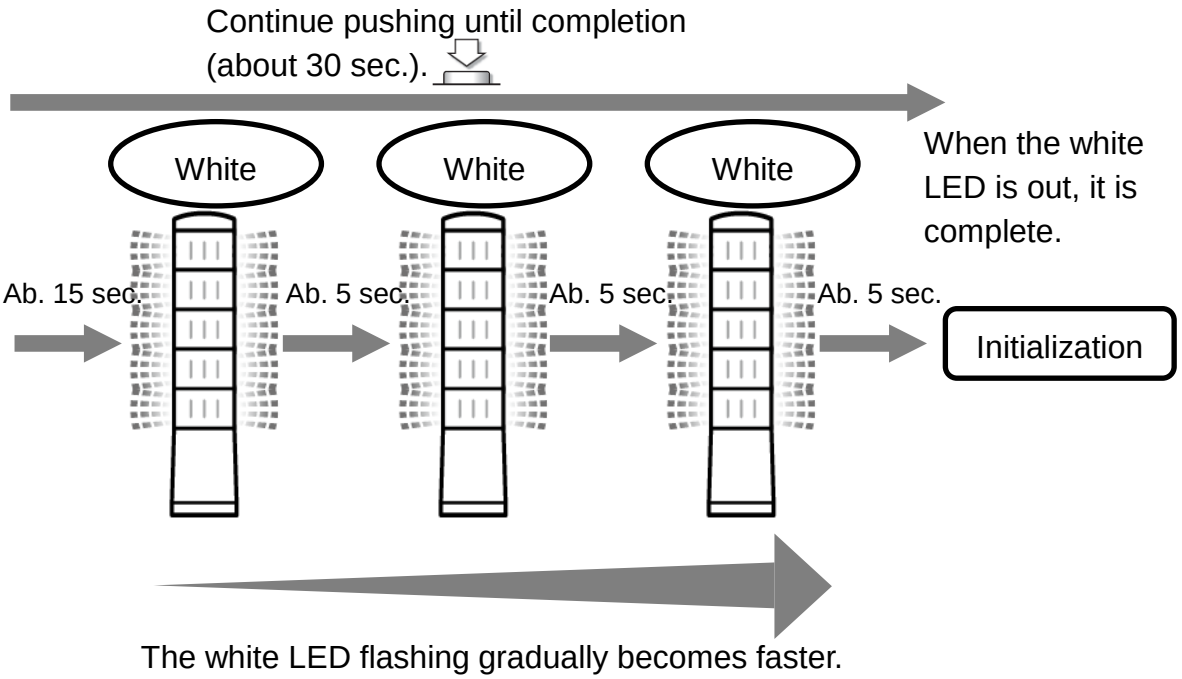


For a detailed verification of the current version, the "REVOLITE EDITOR" application can be used to check from the PC. If the is no personal computer, etc., available in its environment, contact your nearest Patlite Sales Representative and tell them the status of LED tiers displayed to determine the current firmware version.

From the version confirmation status, pressing the Mode Switch somewhat longer (3 seconds), or leaving it for 15 seconds untouched, will automatically cause it to return to normal operation.

●Product Initialization

The flashing speed of the white LED gradually becomes faster while holding the Mode Switch down until the white LED is in its full flashing state. The first flashing to 2 By there being renewal of time speed, and also continuing pushing a Mode Switch, white LED goes out and Initialization (LED Signal Tower Mode setup is returned to factory default) is completed. From the first flash, the speed changes twice as fast, and by continuing to push the Mode Switch, the white LED goes out and Initialization (LED Signal Tower Mode setup is returned to factory default) is completed.



Notes

- If the Mode Switch is released before initialization is completed, it returns to its normal operation.
- After pushing the Mode Switch, the standard time to completly return to factory default is 30 seconds.
- Initialization is only possible in the LED Signal Tower Mode.

6.4. **Factory Default Data**

Signal Tower Mode

The following chart indicates the standard set up.

Setting Index	Setup Contents
LED Tier 1 color	Red
LED Tier 2 color	Amber
LED Tier 3 color	Green
LED Tier 4 color	Blue (No setup if it is a 3 tier model)
LED Tier 5 color	White (No setup if it is a 3 tier model)
Alarm 3 Tone	Tone No.3
Flashing Cycle	60 fpm

Smart Mode

The following chart indicates the standard set up. The tables following indicate various groups in which the contents of their type contains various operations.

Setting Index	Setup Contents
Type	Time-trigger Type

Table of Various Operations

The details of the 5 tier group setup is shown in the following table. As a note, a conversion table at the end of the group table indicates the LED color indicated according to the color number in the group tables.

Group No.	STOP Operation	Repeat Setup	Pattern No.	LED Color					Flashing Setup	Buzzer Sound	Lighting Duration [Seconds]
				1st Tier	2nd Tier	3rd Tier	4th Tier	5th Tier			
1	The pattern is displayed when an input occurs.	Repeat	1	1	1	1	1	1	On	0	1
2	The pattern is displayed when an input occurs.	Repeat	1	5	5	5	5	5	On	0	1
3	The pattern is displayed when an input occurs.	Repeat	1	9	9	9	9	9	On	0	1
4	The pattern is displayed when an input occurs.	Repeat	1	13	13	13	13	13	On	0	1
5	The special pattern for STOP when an input occurs.	Repeat	1	21	21	21	21	21	On	0	1
5			STOP	13	13	13	13	5	On	1	
6	The pattern is displayed when an input occurs.	Repeat	1	16	16	16	16	16	On	0	1
7	The pattern is displayed when an input occurs.	Repeat	1	17	17	17	17	17	On	0	1
8	The pattern is displayed when an input occurs.	Repeat	1	11	11	11	11	11	On	0	1
9	The pattern is displayed when an input occurs.	Repeat	1	7	7	7	7	7	On	0	1
10	The pattern is displayed when an input occurs.	Repeat	1	16	17	11	7	21	On	0	1

Continue to the next page...

Group No.	STOP Operation	Repeat Setup	Pattern No.	LED Color					Flashing Setup	Buzzer Sound	Lighting Duration [Seconds]
				1st Tier	2nd Tier	3rd Tier	4th Tier	5th Tier			
11	The pattern is displayed when an input occurs.	Repeat	1	22	22	22	22	22	On	0	1
			2	1	1	1	1	1	On	0	1
			3	5	5	5	5	5	On	0	1
			4	9	9	9	9	9	On	0	1
			5	13	13	13	13	13	On	0	1
			6	21	21	21	21	21	On	0	1
			7	16	16	16	16	16	On	0	1
			8	17	17	17	17	17	On	0	1
			9	7	7	7	7	7	On	0	1
			10	8	8	8	8	8	On	0	1
			11	11	11	11	11	11	On	0	1
			12	1	1	1	1	1	60fpm	0	1
			13	22	22	22	22	22	On	0	1
			14	21	13	9	5	1	On	0	1
			15	1	2	3	4	5	On	0	1
			16	5	6	7	8	9	On	0	1
			17	9	10	11	12	13	On	0	1
			18	13	14	15	16	17	On	0	1
			19	17	18	19	20	21	On	0	1
12	The pattern is displayed when an input occurs.	Does not Repeat	1	22	22	22	22	22	On	0	1
			2	22	22	22	22	13	On	0	1
			3	22	22	22	13	13	On	0	1
			4	22	22	13	13	13	On	0	1
			5	22	13	13	13	13	On	0	1
			6	13	13	13	13	13	On	0	1
			7	22	22	22	22	22	On	0	1
			8	22	16	16	16	16	On	0	1
			9	22	22	16	16	16	On	0	1
			10	22	22	22	16	16	On	0	1
			11	22	22	22	22	16	On	0	1
			12	22	22	22	22	22	On	0	1
			13	22	22	22	22	9	On	0	1
			14	22	22	22	9	9	On	0	1
			15	22	22	9	9	9	On	0	1
			16	22	9	9	9	9	On	0	1
			17	9	9	9	9	9	On	0	1
			18	9	9	9	9	9	120fpm	0	1
			19	1	1	1	1	1	On	0	1
			20	22	1	1	1	1	On	0	1
			21	22	22	1	1	1	On	0	1
			22	22	22	22	1	1	On	0	1
			23	22	22	22	22	1	On	0	1
			24	22	22	22	22	1	120fpm	0	1

Continue to the next page...

Group No.	STOP Operation	Repeat Setup	Pattern No.	LED Color					Flashing Setup	Buzzer Sound	Lighting Duration [Seconds]
				1st Tier	2nd Tier	3rd Tier	4th Tier	5th Tier			
13	The pattern is displayed when an input occurs.	Repeat	1	22	22	22	22	1	On	0	0.5
			2	22	22	22	1	22	On	0	0.5
			3	22	22	1	22	22	On	0	0.5
			4	22	1	22	22	22	On	0	0.5
			5	1	22	22	22	22	On	0	0.5
			6	22	22	22	22	1	On	0	0.5
			7	22	22	22	1	22	On	0	0.5
			8	22	22	1	22	22	On	0	0.5
			9	22	1	22	22	22	On	0	0.5
			10	1	22	22	22	22	On	0	0.5
			11	22	22	22	22	22	On	0	0.5
			12	13	22	22	22	22	On	0	0.5
			13	22	13	22	22	22	On	0	0.5
			14	22	22	13	22	22	On	0	0.5
			15	22	22	22	13	22	On	0	0.5
			16	22	22	22	22	13	On	0	0.5
			17	13	22	22	22	22	On	0	0.5
			18	22	13	22	22	22	On	0	0.5
			19	22	22	13	22	22	On	0	0.5
			20	22	22	22	13	22	On	0	1
			21	22	22	22	22	13	On	0	1
14	The pattern is displayed when an input occurs.	Repeat	1	9	9	9	9	9	On	0	1
			2	22	9	9	9	9	On	0	1
			3	22	22	9	9	9	On	0	1
			4	22	22	22	9	9	On	0	1
			5	22	22	22	22	9	On	0	1
			6	5	5	5	5	5	On	0	1
			7	22	5	5	5	5	On	0	1
			8	22	22	5	5	5	On	0	1
			9	22	22	22	1	1	On	0	1
			10	22	22	22	22	1	On	0	1
			11	1	1	1	1	1	120fpm	0	1
			12	22	22	22	22	22	On	0	1
			13	22	22	22	22	22	On	0	1
15	The pattern is displayed when an input occurs.	Repeat	1	22	22	22	22	22	On	0	2
			2	9	9	9	22	22	On	0	1.5
			3	5	5	9	9	9	On	0	1.5
			4	9	22	9	22	9	On	0	1.5
			5	1	22	22	22	22	On	0	1.5
			6	1	22	1	22	22	On	0	1.5
			7	1	22	1	22	1	On	0	1.5
			8	1	22	22	22	22	On	0	1.5
			9	1	22	1	22	22	On	0	1.5
			10	1	22	1	22	1	On	0	1.5
			11	5	9	9	5	22	On	0	1.5
			12	9	9	9	22	22	On	0	1.5

The details of the 3 tier group setup is shown in the following table.

Group No.	STOP Operation	Repeat Setup	Pattern No.	LED Color			Flashing Setup	Buzzer Sound	Lighting Duration [Seconds]
				1st Tier	2nd Tier	3rd Tier			
1	The pattern is displayed when an input occurs.	Repeat	1	1	1	1	On	0	1
2	The pattern is displayed when an input occurs.	Repeat	1	5	5	5	On	0	1
3	The pattern is displayed when an input occurs.	Repeat	1	9	9	9	On	0	1
4	The pattern is displayed when an input occurs.	Repeat	1	13	13	13	On	0	1
5	The special pattern for STOP when an input occurs.	Repeat	1	21	21	21	On	0	1
5			STOP	13	13	5	On	1	
6	The pattern is displayed when an input occurs.	Repeat	1	16	16	16	On	0	1
7	The pattern is displayed when an input occurs.	Repeat	1	17	17	17	On	0	1
8	The pattern is displayed when an input occurs.	Repeat	1	11	11	11	On	0	1
9	The pattern is displayed when an input occurs.	Repeat	1	7	7	7	On	0	1
10	The pattern is displayed when an input occurs.	Repeat	1	17	11	7	On	0	1

Continue to the next page...

Group No.	STOP Operation	Repeat Setup	Pattern No.	LED Color			Flashing Setup	Buzzer Sound	Lighting Duration [Seconds]
				1st Tier	2nd Tier	3rd Tier			
11	The pattern is displayed when an input occurs.	Repeat	1	22	22	22	On	0	1
			2	1	1	1	On	0	1
			3	5	5	5	On	0	1
			4	9	9	9	On	0	1
			5	13	13	13	On	0	1
			6	21	21	21	On	0	1
			7	16	16	16	On	0	1
			8	17	17	17	On	0	1
			9	7	7	7	On	0	1
			10	8	8	8	On	0	1
			11	11	11	11	On	0	1
			12	1	1	1	60fpm	0	1
			13	22	22	22	On	0	1
			14	9	5	1	On	0	1
			15	1	2	3	On	0	1
			16	4	5	6	On	0	1
			17	7	8	9	On	0	1
			18	10	11	12	On	0	1
			19	13	14	15	On	0	1
			20	16	17	18	On	0	1
			21	19	20	21	On	0	1
12	The pattern is displayed when an input occurs.	Does not repeat	1	22	22	22	On	0	1
			2	22	22	13	On	0	1
			3	22	13	13	On	0	1
			4	13	13	13	On	0	1
			5	22	22	22	On	0	1
			6	22	16	16	On	0	1
			7	22	22	16	On	0	1
			8	22	22	22	On	0	1
			9	22	22	9	On	0	1
			10	22	9	9	On	0	1
			11	9	9	9	On	0	1
			12	9	9	9	120fpm	0	1
			13	1	1	1	On	0	1
			14	22	1	1	On	0	1
			15	22	22	1	On	0	1
			16	22	22	1	120fpm	0	1

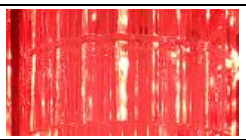
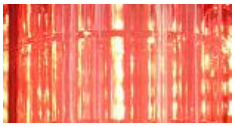
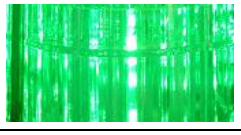
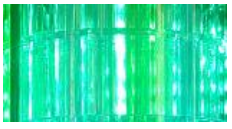
Continue to the next page...

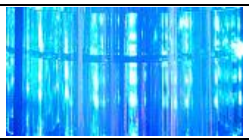
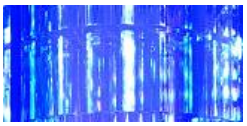
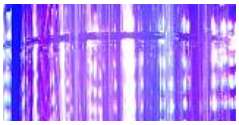
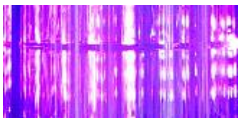
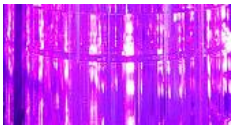
Group No.	STOP Operation	Repeat Setup	Pattern No.	LED Color			Flashing Setup	Buzzer Sound	Lighting Duration [Seconds]
				1st Tier	2nd Tier	3rd Tier			
13	The pattern is displayed when an input occurs.	Repeat	1	22	22	1	On	0	0.5
			2	22	1	22	On	0	0.5
			3	1	22	22	On	0	0.5
			4	22	22	1	On	0	0.5
			5	22	1	22	On	0	0.5
			6	1	22	22	On	0	0.5
			7	22	22	22	On	0	0.5
			8	13	22	22	On	0	0.5
			9	22	13	22	On	0	0.5
			10	22	22	13	On	0	0.5
			11	13	22	22	On	0	0.5
			12	22	13	22	On	0	0.5
			13	22	22	13	On	0	0.5
14	The pattern is displayed when an input occurs.	Repeat	1	9	9	9	On	0	1
			2	22	9	9	On	0	1
			3	22	22	9	On	0	1
			4	5	5	5	On	0	1
			5	22	5	5	On	0	1
			6	22	22	1	On	0	1
			7	1	1	1	120fpm	0	1
			8	22	22	22	On	0	1
			9	22	22	22	On	0	1
15	The pattern is displayed when an input occurs.	Repeat	1	22	22	22	On	0	2
			2	9	9	22	On	0	1.5
			3	5	5	9	On	0	1.5
			4	9	22	9	On	0	1.5
			5	1	22	22	On	0	1.5
			6	1	22	1	On	0	1.5
			7	1	22	22	On	0	1.5
			8	1	22	1	On	0	1.5
			9	5	9	5	On	0	1.5
			10	9	9	22	On	0	1.5

Color Number Conversion Table

The following table indicates the kind of color in reference to the color number in the charts above.

The color image may vary from actual color due to the computer screen or the printing quality of this manual.

Color Number	Color Image
1 (Red)	
2	
3	
4	
5 (Amber)	
6	
7 (Lemon)	
8	
9 (Green)	
10	
11 (sky-blue)	

Color Number	Color Image
12	
13 (Blue)	
14	
15	
16 (Purple)	
17 (Peach)	
18	
19	
20	
21 (White)	
22 (Off)	-

7. Changing Data

With the "REVOLITE EDITOR" application software, setup data can be changed and transmitted into this product.

●Necessary Items

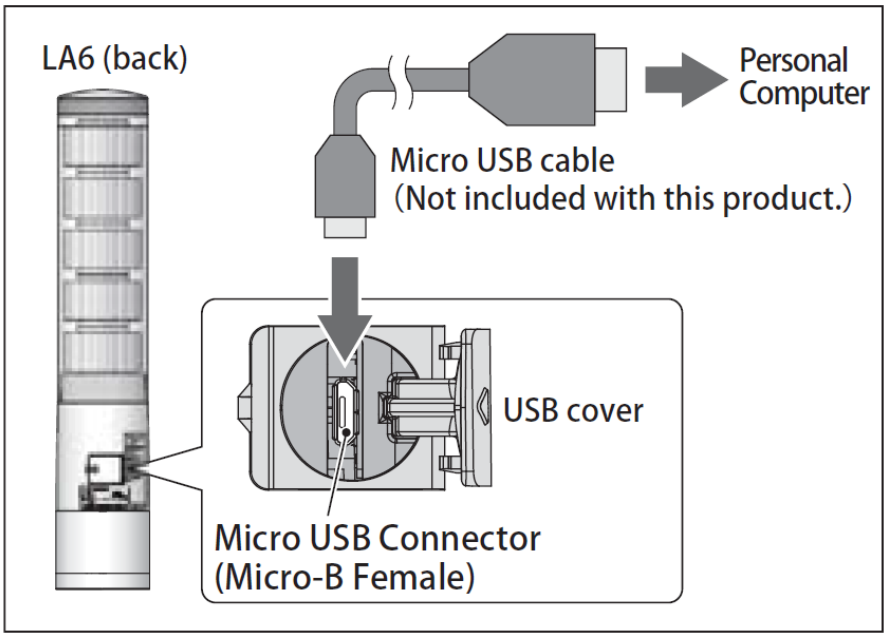
- This product
- Personal Computer (with all hardware operating normally)
- MicroUSB cable for Charging/Data Transfer (USB A male to USB Micro-B male * not included with this products)
- "REVOLITE EDITOR" Application Software

  Supporting OS: Windows®7 32 bit/64 bit, and Windows®8 32 bit/64 bit, and Windows®8.1 32 bit/64 bits

●Transfer Procedure

① Product changes to standby status (all signal inputs OFF).
(Power supply input can be ON or OFF, whichever is easier)

② Open the USB cover to the product, use the MicroUSB cable to connect the product to the personal computer.



③ Click the "Transmission" button in the "REVOLITE EDITOR" application.

④ From the start of data transfer, it takes about 15 seconds before the "Transfer was completed" prompt is displayed.

⑤ Remove the micro USB cable and close the USB cover completely.

Notes

- If the power supply input to the product is set to ON, by clicking the "preview" button of the "REVOLITE EDITOR", the group operation test can be checked.

8. **Time Chart**

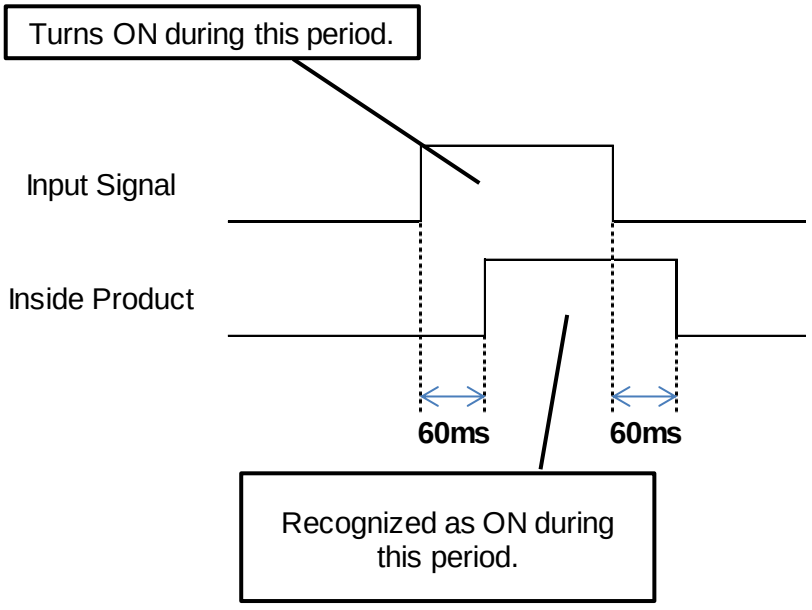
A signal input and its input signal recognition are determined based on the time chart shown below. This product is roughly classified into two input signals, as indicated from the following contents.

- Standard Input Signal... All input signals, except a trigger input, are level hold inputs.
- Trigger Input Signal ... It is a one shot input. (Only for the pulse trigger type)

Refer to the items in each chart.
In addition, the signal input holding time (data lead time) of this product is common to all signal inputs (except for the Mode Switch).
Data lead time is 60 milliseconds.

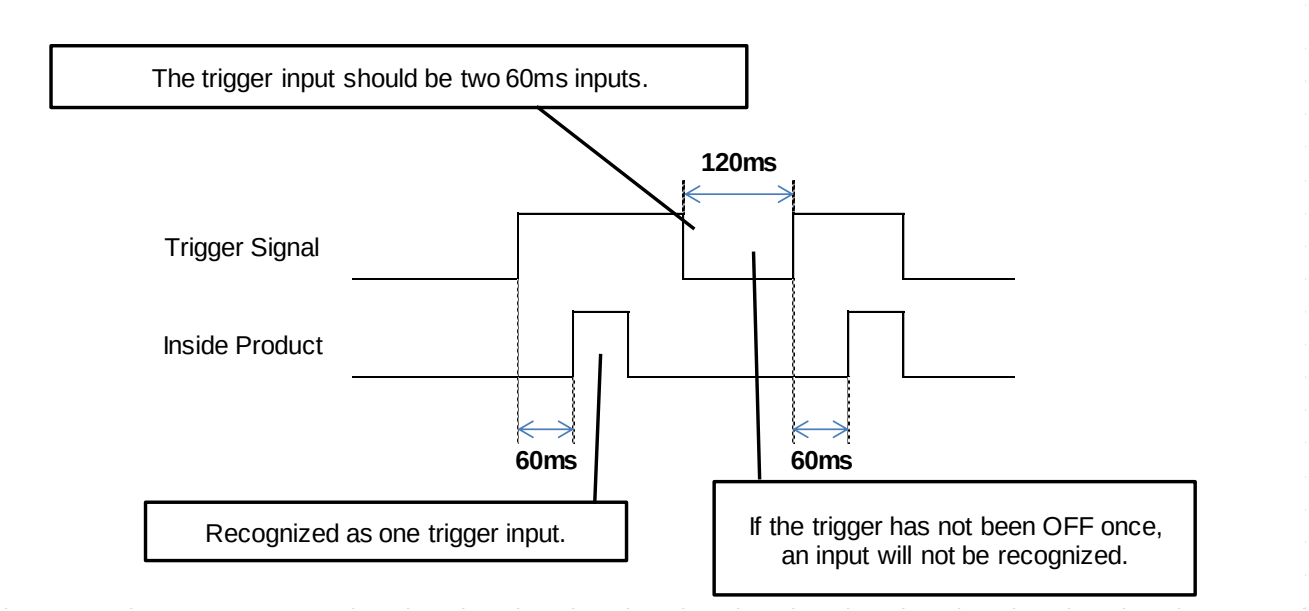
8.1. **Basic Signal Input Time Chart**

If an input signal status is maintained by the data lead time indicated for this product, the input status is decided inside the product.



8.2. **Trigger Input Signal Time Chart**

Unlike other inputs, the trigger input in the "Smart Mode" turns into a one shot input. As the time in detection rises, and is maintained, the next detection is not recognized.



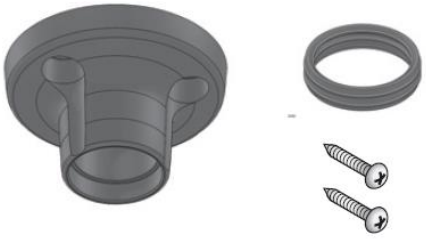
9. Before Requesting Repair

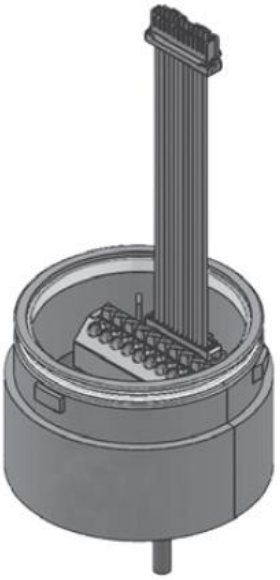
Even after proper installation, if it does not operate, please contact your nearest PATLITE Sales Representative or contact us with the information found on the last page of this book.

Problem	Where to Check	What to do
The LED does not light up.	Is the electric wiring connected correctly?	Refer to "5 The wiring method" for proper wiring.
A different LED tier from what I thought lights up when I make it turn on.	Is the electric wiring connected correctly?	Refer to "5 The wiring method" for proper wiring.
	Is the setup data correct?	Check the setup data contents.
The Alarm does not sound.	Is the electric wiring connected correctly?	Refer to "5 The wiring method" for proper wiring.
	Is the power properly supplying the correct voltage?	The supply voltage is DC24V.
	Is the setup data correct?	Check the setup data contents.
	Check that the product type has a Alarm included or not.	The Alarm function is only included with products with a "B" in the part number.
The Alarm volume is small.	Is the Alarm volume set to minimum?	Refer to "6.3 How to use a Mode Switch" on how to adjust the volume.
	Is the setup data correct?	Check the setup data contents.
The LED does not flash.	Is the electric wiring connected correctly?	Refer to "5 The wiring method" for proper wiring.
	Are the external contacts for lighting turning on?	Priority is given to the lighting input over the flashing input when simultaneous signals are applied.
	Check that the product type has a Alarm included or not.	The Alarm function is only included with products with a "B" in the part number.
	Is the setup data correct?	Check the setup data contents.
Cannot transfer data.	Is the proper type of cable being used?	Only use a cable which can charge and transfer data.

10. **Replacement Parts**

Several kinds of parts are available for the customer to change or replace.

Part Name	Part Number	Reference Figure
Head Cover (Off-white)	B31310001-7F1	
Head Cover (Silver)	B31310001-9F1	
USB Cover (Off-white)	B22100071-7F1	
USB Cover (Silver)	B22100071-9F1	
Waterproof ring B (2 pc. Set)	B25110042-F1	
Pole Bracket Pole Bracket, Pole Waterproofing Ring, Tapping screw (2 pc.) set	B22210134-7F1	

Part Name	Part Number	Reference Figure
Direct-mount Bracket (Off-white)	B22202027-7F1	
Direct-mount Bracket (Silver)	B22202027-9F1	
Terminal Buss Bracket (Off-white)	B22202028-7F1	
Terminal Buss Bracket (Silver)	B22202028-9F1	
Pole Waterproofing Ring	B25110047-F1	

11. **Specifications**

<table>
<tr><td colspan="2">Model</td><td colspan="5">LA6-□D□□□-□ (Refer to "2. Model Number Configuration")</td></tr>
<tr><td colspan="2">Rated Voltage</td><td colspan="5">DC24 V</td></tr>
<tr><td colspan="2">Operating Voltage Range</td><td colspan="5">±10% of Rated Voltage</td></tr>
<tr><td rowspan="4">Rated Power Consumption</td><td rowspan="2">Standard</td><td>LA6-5 D□□N-RYGBC</td><td>5W</td><td colspan="2">LA6-5 D□□B-RYGBC</td><td>6.5W</td></tr>
<tr><td>LA6-3D□□N-RYG</td><td>3.5W</td><td colspan="2">LA6-3D□□B-RYG</td><td>4.5W</td></tr>
<tr><td rowspan="2">Maximum</td><td>LA6-5 D□□N-YYYYY</td><td>7W</td><td colspan="2">LA6-5 D□□B-YYYYY</td><td>8W</td></tr>
<tr><td>LA6-3D□□N-YYY</td><td>4.5W</td><td colspan="2">LA6-3D□□B-YY</td><td>5.5W</td></tr>
<tr><td>Environmental Condition</td><td colspan="5">Alarm: Tone No.1 at Maximum Volume</td></tr>
<tr><td colspan="2">Signal Wire Current</td><td colspan="5">Maximum 70mA</td></tr>
<tr><td colspan="2">Standby Current</td><td colspan="5">Maximum 15mA</td></tr>
<tr><td colspan="2">Operating Ambient Temperature</td><td colspan="5">-25℃ - +60℃</td></tr>
<tr><td colspan="2">Operating Humidity Range</td><td colspan="5">Less than 90% RH (No Dew or Condensation)</td></tr>
<tr><td colspan="2">Storage Temperature Range</td><td colspan="5">-25℃ - +60℃</td></tr>
<tr><td colspan="2">Storage Humidity Range</td><td colspan="5">Less than 90% RH (No Dew or Condensation)</td></tr>
<tr><td colspan="2">Mounting Location</td><td colspan="5">Indoor Only</td></tr>
<tr><td colspan="2">Mounting Direction</td><td colspan="5">Upright/Inverted Direction</td></tr>
<tr><td colspan="2">Protection Rating</td><td colspan="5">IP65 (Alarm specification: IP54) IEC 60529</td></tr>
<tr><td>Environmental Condition</td><td colspan="5">Upright Installation</td></tr>
<tr><td colspan="2" rowspan="3">Vibration Resistance</td><td>LA6-□□LJ□□</td><td colspan="4">Sweep Durability: Total amplitude: 0.3 mm_{p-p} (10 - 57.5 Hz),
Acceleration: 20.0 m/s^2 (57.5 - 150 Hz)
Fixed pitch durability: Acceleration 20.0 m/s^2</td></tr>
<tr><td>LA6-□□WJ□□
LA6-□□TN□□</td><td colspan="4">Sweep Durability: Total amplitude 0.3 mm_{p-p} (10 - 57.5 Hz),
Acceleration: 20.0 m/s^2 (57.5 - 150 Hz)
Fixed Vibration Frequency Durability: Acceleration 10.0 m/s^2</td></tr>
<tr><td colspan="5">JIS C 60068-2-6:2010</td></tr>
<tr><td>Environmental Condition</td><td colspan="5">Upright Installation</td></tr>
<tr><td colspan="2">Insulation Resistance</td><td colspan="5">More than 1Mohm at DC500V between the power input lead and chassis.</td></tr>
<tr><td colspan="2">Withstand Voltage</td><td colspan="5">500VAC for 1min between terminals and chassis without breaking insulation</td></tr>
</table>

<table>
<tr><td rowspan="3">Display Color
(Typical Luminous Intensity)</td><td colspan="4">red (1000 mcd) amber (1700 mcd) green (2600 mcd) blue (1000 mcd) white (1250 mcd)</td></tr>
<tr><td colspan="4">purple (800 mcd) pink (850 mcd) sky blue (2150 mcd) lemon (2150 mcd)</td></tr>
<tr><td colspan="4">* Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur.</td></tr>
<tr><td>Flash Rate</td><td colspan="4">60 ± 2 fpm</td></tr>
<tr><td rowspan="6">Alarm Sound
(Typical Frequency)</td><td>No.1</td><td>2400Hz Continuous beep sound</td><td>No.2</td><td>2400Hz Rapid intermittent beep
(0.05 sec. sound / 0.05 sec. silent)</td></tr>
<tr><td>No.3</td><td>2400Hz Long intermittent beep
(1.5 sec. sound / 1.5 sec. silent)</td><td>No.4</td><td>2400Hz Fast intermittent beep
(0.5 sec. sound / 0.5 sec. silent)</td></tr>
<tr><td>No.5</td><td>3600Hz Continuous beep Sound</td><td>No.6</td><td>3600Hz Rapid intermittent beep
(0.05 sec. sound / 0.05 sec. silent)</td></tr>
<tr><td>No.7</td><td>3600Hz Long intermittent beep
(1.5 sec. sound / 1.5 sec. silent)</td><td>No.8</td><td>3600Hz Fast intermittent beep
(0.5 sec. sound / 0.5 sec. silent)</td></tr>
<tr><td>No.9</td><td>2400Hz & 3375Hz Multiplexed Beep
(0.25 sec. / 0.25 sec.)</td><td>No.10</td><td>2400Hz & 3600Hz Multiplexed Beep
(0.25 sec. / 0.25 sec.)</td></tr>
<tr><td>No.11</td><td>4000Hz & 4800Hz Multiplexed Beep
(0.25 sec. / 0.25 sec.)</td><td colspan="2">-</td></tr>
<tr><td colspan="2">Sound Level</td><td colspan="4">Maximum: 85dB</td></tr>
<tr><td>Environmental Condition</td><td colspan="4">Alarm Sound No.1 measured from the front direction of the Alarm opening at 1m</td></tr>
<tr><td rowspan="2">Volume Control</td><td colspan="4">The set up button is the fourth step (Factory Default: Maximum).</td></tr>
<tr><td colspan="4">[Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum])</td></tr>
<tr><td rowspan="2">Data Transfer Interface</td><td>Main Unit</td><td colspan="3">USB micro-B Terminal Female
USB2.0/1.1 Interface, Transmission Rate: USB2.0/1.1/1.0</td></tr>
<tr><td>Transfer Cable</td><td colspan="3">Charge /Data Transfer compatable Micro USB (not included)
Connector Type: USB (type) Male- USB (MicroB type) male</td></tr>
<tr><td>Data Programming Application Software</td><td colspan="4">Exclusive Application Software
(Downloadable from our Homepage)</td></tr>
<tr><td rowspan="4">Mass (Tolerance 10%)</td><td colspan="2">LA6-3DTN☐B</td><td>480g</td><td>LA6-3DLJ☐B</td><td>980g</td></tr>
<tr><td colspan="2">LA6-3DTN☐N</td><td>420g</td><td>LA6-3DLJ☐N</td><td>930g</td></tr>
<tr><td colspan="2">LA6-5 DTN☐B</td><td>590g</td><td>LA6-5 DLJ☐B</td><td>1090g</td></tr>
<tr><td colspan="2">LA6-5 DTN☐N</td><td>530g</td><td>LA6-5 DLJ☐N</td><td>1040g</td></tr>
<tr><td rowspan="3">Compliance Standards</td><td colspan="3">EMC Directive (EN 61000-6-4, EN 61000-6-2)</td><td colspan="2">RoHS Directive (EN 50581)</td></tr>
<tr><td colspan="3">UL508, CSA-C22.2 No.14</td><td colspan="2">KC (KN 61000-6-4, KN 61000-6-2)</td></tr>
<tr><td colspan="3">FCC Part 15 SubpartB Class A</td><td colspan="2">-</td></tr>
<tr><td>Remarks</td><td colspan="5">CE Marking Compliant
UL Recognized Component (File No.E215660)</td></tr>
</table>

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