## VSST-LR Switch Box INSTALLATION MANUAL

Thank you for purchasing the Patlite Manually Controlled Signal Tower for your application. Please read these instructions carefully before installation, maintenance and repair. Store this manual in a safe place for future reference. If you have any questions regarding this product, please contact your PATLITE sales representative.

### NOTICE FOR SAFE OPERATION

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

The warning indications are divided into the following classes according to the degree of danger or damage incurred when the warning is not taken into consideration and the product is not correctly used.

Warning	Failure to follow these instructions may lead to death or serious injury.			
A Cautior	Failure to follow these instructions may lead from slight to medium injury or lead to property damage or injury to others.			
The following symbols explain the nature of the information to be observed.				
Described action is strictly prohibited. It is not to be carried out under any circumstances.				
Described action is "enforced". It should be carried out by all means.				
1. To operate this product safely, please observe the following:				
✓! Warning	<ul> <li>Be sure to disconnect the power when wiring, mounting, exchanging, or repairing the product. Failure to comply may result in damage of the internal circuitry and the danger of electric shock due to short-</li> </ul>			

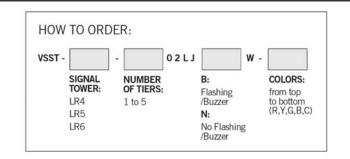
- (Enforced)
   (Enforced)
- in falling off the machinery or product damage may occur.

  Caution

  Do not substitute any parts from other products or disassemble this
  unit for any other purpose than to direct-mount the enclosure. It may
  cause malfunction or failure.

  The Signal Light runs on 24V DC. 100-240VAC to 24VDC Adapter
  included.

2. Model Number Configuration



#### 3. Part Names and Dimensions

Buzzer

Red LED

Amber LED

Green LED

Blue LED

White LED

Tower Body

Pole Adapter

Angle Bracket

Power Supply

Holes (x4)

Backside Mounting

π' -1

Part Names

Pole

Top Nut

Washer

Red LED Switch -

Amber LED Switch

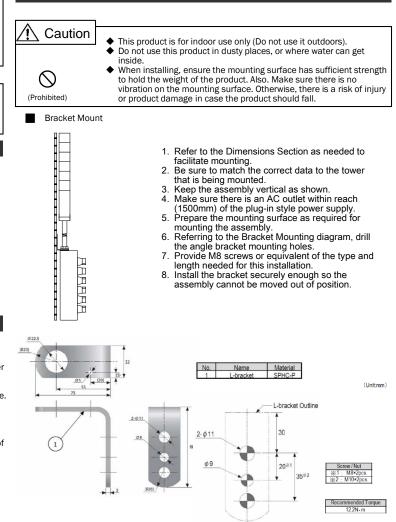
Green LED Switch —

White LED Switch —

NOTES:

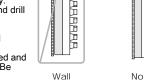
- Control box for 5-color, Flashing/Buzzer style towers shown
- 5 and 6-switch boxes are the same size. There is no alarm switch for 5-color steady-only towers
- Control boxes for 1-tier to 4-tier towers will not have all the switches. Length of the box will vary accordingly

Part Dimensions LR LED Signal Towers Dimensions (mm) No. of LED Modules H without Buzzer Switch Box H with Buzzer Switch Box R n/a 133 n/a A Υ 139 173 В A G 179 213 в 219 253 D Ø40 LR4 С 259 293 D Ø50 | R5 Ø60 LR6 333 299 \* Must purchase Buzzer for LED flashing function. For VSST dimensi lease see "H with Buzzer with flashing func O ß ß G ß A 0000 000 000  $\bigcirc$  $\bigcirc$  $\bigcirc$ Ō  $\bigcirc$ T  $\bigcirc$  $\bigcirc$  $\bigcirc$  $\bigcirc$ **FAAA** Ō  $\bigcirc$  $\bigcirc$ Switch Box Dimensions (mm) Switch Bax No. of Switches W М D1 D2 1 68 78 42 64 91 00000 A 68 75 64 111 91 68 115 64 91 151 3 71 186 150 68 95 4 1500 +/- 50 71 236 240 68 95 71 276 240 68 95 4. Installation



Caution
 Caution
 (Prohibited)
 (Prohibited)
 (Prohibited)
 (Prohibited)

- On the front cover, back out the captive screw at each corner and separate the front & back half of the box.
- Loosen the pole nut if necessary and turn the angle bracket 90<sup>o</sup> either direction. Be careful not to over-tighten the nut as it may break the enclosure.
- Choose a configuration so that the tower will not interfere with the vertical mounting surface.
   Make sure there is an AC outlet within reach
- Make sure there is an AC outlet within reach (1500mm) of the plug-in style power supply.
   See the dimensions provided to position and drill
- the mounting holes.
   Mount the box by inserting user-supplied mounting hardware into the holes provided.
- mounting hardware into the holes provided through the back half of the box.7. Keep the front & back half of the box aligned and tighten the captive screws at each corner. Be careful not to pinch the wiring.



Interferina!

Interference!

#### 5. Operation

- LED Light Tower Operation without Flashing / Alarm Capability
- Plug in the wall-plug-style power supply into the AC outlet supplying the correct AC voltage level per the specifications of this product. (Power Supply is included)
- 2. Each switch is color-coded to correspond to the color of the corresponding LED light on the tower.
- 3. Turn the 2-position rotary switch on the enclosure to the left to turn off the tower light
- Turn the 2-position switch to the right to turn on the tower light in steady mode.

LED Light Tower Operation with Flashing / Alarm Capability

- Plug in the wall-plug-style power supply into the AC outlet supplying the correct AC voltage level per the specifications of this product. (Power Supply is included)
- 2. Each switch is color-coded to correspond to the color of the corresponding LED light on the tower.
- Turn the 3-position rotary switch on the enclosure to the left to turn on the tower light in steady mode.
   Turn the 3-position rotary switch on the enclosure to
- turn the 3-position rotary switch on the enclosure to the center to turn the tower light OFF.
   Turn the 3-position switch to the right to turn on the
- Turn the 3-position switch to the right to turn on the tower light in flashing mode.
   Turn the gray 3-position switch on the enclosure to
- the left to select Alarm 1 (fast beep) 7. Turn the gray 3-position switch on the enclosure to
- the center to turn the alarm off. 8. Turn the gray 3-position switch on the enclosure to the right to select Alarm 2 (slow beep)



Off

Off Alm 2

Alm 1

Caution

 Do not operate the switches with excessive force. There is the risk of breaking the switch components.

#### 6. Specifications

Rated VoltageDC24V (No polarity) AC to DC Adapter IncludedOperating VoltageRated Voltage +/- 10%Mounting LocationIndoor use only, Flat wall surface without vibration

LED Luminous Intensity in average mcd units						
Model	Red	Yellow	Green	Blue	White	
LR4	2290	5250	5430	1840	8230	
LR5	2350	4740	4720	1500	7370	
LR6	2250	4500	4580	1670	6880	

# Buzzer Sound/Typical Frequency Dip Switch SelectableNo. 1Rapid Intermittent Beep / 3378 HzNo. 2Continuous Beep Sound / 3378 HzNo. 3Rapid Hi-Lo / 2016 Hz & 3012 Hz

No. 4	Sweep Sound / 1000 Hz-4032 Hz		

Sound Pressure Level						
LR4	Typical 85dB	Sound Reduction Approx 10dR				
LR5	Typical 85dB	Sound Reduction Approx10dB				
LR6	Typical 88dB	Depending on Dir Switch Settings				
-	21	Depending on DIP Switch Setting				

improvement.

 PATLITE Corporation disclaims all liability for any malfunction or damage that occurs 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

Caution

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#### Limited Warranty:

PATLITE (USA) CORPORATION ("PATLITE") warrants its products to be free from defects in material and workmanship under normal and proper use for a period of one (1) year from the initial date of shipment by PATLITE. In the event of a defect not caused by misuse or damage to the products, PATLITE will, at its option, repair, replace or return the purchase price for, defective products upon PATLITE's inspection. EXCEPT FOR THE EXPRESS PRODUCT WARRANTY SET FORTH IN THESE TERMS AND CONDITIONS, (A) NEITHER PATLITE NOR ANY PERSON ON PATLITE'S BEHALF HAS MADE OR MAKES ANY EXPRESS OR IMPLIED REPRESENTATION. OR WARRANTY WHATSOEVER, EITHER ORAL OR WRITTEN, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, OR NON INFRINGEMENT OR PERFORMANCE OF GOODS OR PRODUCTS TO STANDARDS SPECIFIC TO THE COUNTRY OF IMPORT, WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED, AND (B) DISTRIBUTOR ACKNOWLEDGES THAT IT HAS NOT RELIED UPON ANY REPRESENTATION OR WARRANTY MADE BY PATLITE, OR ANY OTHER PERSON ON PATLITE'S BEHALF, EXCEPT AS SPECIFICALLY PROVIDED IN THESE TERMS AND CONDITIONS. DISTRIBUTOR SHALL NOT EXTEND OR INCREASE PATLITE'S WARRANTY OR ASSUME ON BEHALF OF PATLITE ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH THE SALE OF PRODUCTS. THIS AGREEMENT SETS FORTH DISTRIBUTOR'S SOLE REMEDY AND PATLITE'S ENTIRE LIABILITY FOR ANY BREACH OF THE LIMITED PRODUCT WARRANTY UNDER THESE TERMS AND CONDITIONS. IN NO EVENT SHALL PATLITE OR ANY PARENT OR AFFILIATE OF PATLITE BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE, EXEMPLARY, OR CONSEQUENTIAL DAMAGES. To request warranty assistance, contact PATLITE to obtain a Return Merchandise Authorization ("RMA") number and return the product to PATLITE with the RMA number. Warranty assistance does not apply if the product is altered or modified in any way after shipment by PATLITE.

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