### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Voltage</th>
<th>Operating Voltage Range</th>
<th>Operating Current</th>
<th>Consumption</th>
<th>Mounting/Wiring</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA6</td>
<td>24V DC±10%/90-250V AC (50Hz/60Hz)</td>
<td>21W</td>
<td>7.2W (48V DC)</td>
<td>5Tiers</td>
<td>Direct Mount/Cable/Terminal/Ethernet/Buzzer</td>
</tr>
<tr>
<td>LA6-POE</td>
<td>48V DC±10%/90-250V AC (50Hz/60Hz)</td>
<td>30W</td>
<td>12.8W (48V DC)</td>
<td>5Tiers</td>
<td>Direct Mount/Terminal/Cable/No Buzzer</td>
</tr>
</tbody>
</table>

### Environmental Conditions

- **Insulation Resistance**
  - More than 1MΩ at 500V DC between the power input lead and chassis.
  - Between terminals and chassis without breaking insulation.

- **IP Protection**
  - **IP54**
  - **IP65**

- **Operating Humidity Range**
  - Less than 90% RH, no freezing or condensation

- **Stationary Type**
  - Upright: Signal Mode: 9 colors/Smart Mode: 21 colors
  - Flaring/Buzzer type: Less than 85dB

- **Maximum Sound Level**
  - More than 1MΩ at 500V DC between the power input lead and chassis.
  - Between terminals and chassis without breaking insulation.

### Compliances

- Low-voltage Directive (IEC/EN 60947-5-1, EN 62471)

### Lineup

<table>
<thead>
<tr>
<th>Model</th>
<th>Tiers</th>
<th>Voltage</th>
<th>Body Color</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>LA6-3DLJWN-RYG</td>
<td>5</td>
<td>24V DC</td>
<td>Silver/Off-white</td>
<td>Direct Mount/No Buzzer</td>
</tr>
<tr>
<td>LA6-3DLJWN-RYGBC</td>
<td>5</td>
<td>24V DC</td>
<td>RYG/RYGBC</td>
<td>Direct Mount/No Buzzer</td>
</tr>
<tr>
<td>LA6-3DLJNO-RYG</td>
<td>3</td>
<td>24V DC</td>
<td>Silver/Off-white</td>
<td>Direct Mount/No Buzzer</td>
</tr>
<tr>
<td>LA6-3DLJNO-RYGBC</td>
<td>3</td>
<td>24V DC</td>
<td>RYG/RYGBC</td>
<td>Direct Mount/No Buzzer</td>
</tr>
<tr>
<td>LA6-3DWN-RYG</td>
<td>2</td>
<td>24V DC</td>
<td>Silver/Off-white</td>
<td>Direct Mount/No Buzzer</td>
</tr>
<tr>
<td>LA6-3DWN-RYGBC</td>
<td>2</td>
<td>24V DC</td>
<td>RYG/RYGBC</td>
<td>Direct Mount/No Buzzer</td>
</tr>
<tr>
<td>LA6-3DUN-RYG</td>
<td>1</td>
<td>24V DC</td>
<td>Silver/Off-white</td>
<td>Direct Mount/No Buzzer</td>
</tr>
<tr>
<td>LA6-3DUN-RYGBC</td>
<td>1</td>
<td>24V DC</td>
<td>RYG/RYGBC</td>
<td>Direct Mount/No Buzzer</td>
</tr>
</tbody>
</table>

- **Signal Mode**
  - 9 colors/Smart Mode: 21 colors

- **Operation Method**
  - Signal Control
  - Signal/Command Control

- **Ethernet PoE**
  - (Power over Ethernet)
A SIGNAL TOWER DESIGNED TO SHOW MORE SO YOU CAN DO MORE

COMMON ON-SITE OCCURRENCES

OUR PROCESSES HAVE CHANGED.
We now need to reconfigure the color modules on our Signal Towers.

OUR MACHINE LINE IS EXPERIENCING TOO MANY STOPPAGES.
We need to make our workers better aware of machine status, so they can take quicker corrective measures.

WE ARE EXPERIENCING DOWN TIME DUE TO MATERIAL MANAGEMENT.
We need earlier notifications prior to materials completely depleting to avoid delays.

PRODUCTION STOPPAGES ARE OCCURRING AS A RESULT OF UNEVEN WORKFLOW.
Variations in work output is creating bottlenecks that can be smoothed out with a Takt system.

WE NEED TO IMPLEMENT REMOTE MONITORING TO MINIMIZE OUR LABOR COSTS.
We need to monitor the operating status of equipment with long processing time, as well as abnormal stoppages or delays as they occur.

LA6 SOLUTION

The LA6 doesn’t require any hardware or wiring changes to reconfigure colors.
The LA6 can be easily programmed anywhere without tools.

The LA6 is able to create better, more dynamic visual signals to elicit a quicker response by workers.

The LA6 can be programmed to act as a visual level meter to help manage materials and material levels.

The LA6 has an internal timer function, allowing you to create visual timers for a streamlined Takt system.

The LA6 is able to send information to other LA6 devices in remote locations via its mirroring function.
ADVANCED OPTIONS TO SOLVE ANY APPLICATION

IMPROVE VISIBILITY WITHOUT RECONFIGURING HARDWARE

By programming the LA6 to a single, all-tier color arrangement, the equipment status can now be seen at a greater distance, improving awareness and response time.

- Display up to 21 different colors for different equipment statuses

- Operational
- Attention
- Emergency

REDUCE DOWNTIME WITH LEVEL MONITORING

By displaying current material levels, workers can more accurately respond to changes, reducing downtime. As material levels reach certain thresholds, the LA6 can provide earlier visual and audible notifications.

- Display Remaining tank levels in stages

- Tank Full
- Midpoint
- Tank Low

INCREASE EFFICIENCY WITH MORE DYNAMIC VISUAL WARNINGS

The LA6 is able to display more detailed information, such as the status severity level, or specific abnormality conditions, that workers normally would have to look for on an equipment panel or HMI.

- Display the level of status severity

- Minor Error
- Breakdown
- Emergency

WIRING MADE EASY WITH LAN CONNECTIVITY

The LA6 conveniently integrates into your facilities’ existing LAN infrastructure. By connecting to a PoE (Power over Internet) compliant HUB, the LA6 can be controlled and powered through a single cable.
Idle time or delays on the production assembly line is sometimes caused by variations in the rate of worker output.

With the LA6 visual Takt system, workers will be more aware of the progress of the entire line, minimizing delays, and resulting in a smoother work flow.

Due to high volumes of products to inspect, some defective products may be overlooked and pass inspection.

With the LA6 internal timer function, inspectors are allotted proper time for each inspection, resulting in an improved yield rate by accurately detecting inferior goods.

Balance the assembly line with a Takt system

Prevent defective product outflow during inspection

Sensors detect inspectors as they enter the process line, triggering the LA6 to begin the count and the inspectors carry out inspection until the LA6 turns all blue.
Tanks located in remote buildings tend to be overlooked until the tanks are completely depleted.

The LA6 can be used as an economical level meter system, capable of alerting remote personnel of equipment changes in real-time.

Managers in remote offices need to monitor machinery statuses on the factory floor in real-time.

With the LA6-POE’s built-in mirroring function, equipment status, Takt time, etc., can be communicated to other LA6-POE devices in remote locations via a LAN connection. This data can also be sent to a third-party software through the LAN connection for data analysis or Andon monitoring.
### LA6 SIGNAL TOWER

**LA6**  
- **24V DC / 3 and 5 Tier Types**  
  - The LA6 alarm features a total of 11 sounds to match various applications.

**LA6-POE**  
- **Direct Mount / Stationary type**

**LA6 100 - 240V AC 5 Tier Types**
- Voltage: 24V DC  
  - Direct Mount/Terminal (TN)  
  - Steel Pole with L-bracket/Cable (LJ)
- Voltage: 100-240V AC  
  - Direct Mount/Cable (LJ)

---

**BUZZER SOUND SETUP**  
- The built-in switch has four selectable settings for “Loud” (about 85dB) -> “Middle” (about 80dB) -> “Low” (about 75dB) -> “Off”.

**COLOR SETUP**  
- The built-in switch can also allow a manual selection of 9 colors to be set for each tier.

**Multi-function Switch for various setups**

- **BUZZER SOUND SETUP**  
  - The built-in switch has four selectable settings for “Loud” (about 85dB) -> “Middle” (about 80dB) -> “Low” (about 75dB) -> “Off”.

**COLOR SETUP**  
- The built-in switch can also allow a manual selection of 9 colors to be set for each tier.

---

**A new lens design optimizes visibility.**  
- The newly developed lens design efficiently diffuses LED light so that it is unmistakably visible, even from great distances.

**Diffusion & Water Resistance**

---

**Detachable Terminal Block**  
- Has eight inputs available for connecting a PLC or discrete I/O.  
  - Data through these inputs can be transferred to a server over the Ethernet.  
  - DC power can also be wired if a PoE supporting LAN is not available.

**Ethernet PoE**  
- PoE (Power over Ethernet) is a technology which lets network cables carry electrical power.  
  - PoE can bring many advantages, such as reducing costs of installing electrical cables, by connecting it with a USB supporting PoE, or have the flexibility of not having to be tethered to an electrical outlet.

---

**BAZZER**

- **Use the free editing software to freely change the LA6 colors and patterns.**
- **Upload colors and patterns to the signal tower via a USB cable.**
  - The USB cable is sold separately (USB microB type with Charging/Data Transfer capability).

**USB cable**

---

**3rd Party Software:**  
- LA6-POE can send machine status data over Ethernet to centralized software for remote Andon monitoring or data analysis.

**PNS Command**

---

**New**

---

**Optional Parts**

---

**For LA6/LA6-POE**

- Stationary Bracket: SZ-004W  
  - Direct Mount type
- Mounting Pole: SZ-70L  
  - Stationary Type
- Circular Bracket: LZ-60A  
  - Stationary Type
- Stationary Bracket: Magnetic Mount Model: SZN-004W  
  - Direct Mount type
- Wall Mount Bracket: Model: SM-0572  
  - Stationary type

**For LA6**

- Stationary Bracket: SZ-004W  
  - Direct Mount type
- Mounting Pole: SZ-70L  
  - Stationary Type
- Circular Bracket: LZ-60A  
  - Stationary Type
Simple program software!
Download and easily set up PATLITE's exclusive editing software.

**Easy Setup**

1. **Time-trigger Type**
   - Various Setups
     - Group setup (Detailed Settings)
     - Time Span (0.1 sec. / 1.0 sec.)
     - Repetitive Lighting Setup
     - Sign pattern generation (9 colors)
     - Color select: Cycle Speed (Low/High)
   - Simulation
     - Check the light pattern by previewing it before transmitting data into the unit.
   - System Transmit and Receive*
     - Data can be written into the unit and also read from it, so that patterns can be easily copied into other units.

2. **Pulse-trigger Type**
   - Transitions from one pattern to another can be triggered by setting elapsed time or by individual discrete inputs.

3. **Single-display Type**
   - Error level / Request Priority / Status Display, etc.
   - Pattern transition timing can be controlled by individual discrete inputs.

**Smart Mode**

1. **Elapsed Time / Countdown / Cycle Time**
   - Setup timing in pattern changes with the editing software.

2. **Signal Tower Mode**
   - Colors can be configured manually with the push button, without the need to edit the software.
   - Push the setup key for about 5.5 seconds after the power source is ON.
   - All tiers begin flashing green.

3. **LA6 SERIES**

   Editing software and pre-set data patterns are downloadable for free from our website.

* Limited to Time Trigger and Pulse Trigger modes.

http://www.patlite.com