**LA6**

**Signal Tower**

- **RoHS**
- **CE**
- **UL**
- **LED**: 11 Alarm Sounds
- **85 dB at 1m**
- **IP65 (B Type: IP54)**
- **Ø60**

**Display a variety of colors in various ways to improve your processes.**

**FEATURES**

- Indicate abnormal conditions with a variety of color patterns. Can freely set up multiple colors. For example, a serious condition can be indicated with the "All-point Lighting" where the entire signal tower is the same color, thus conveying important information.
- Use "Operating Modes" to enhance a visual status condition. The downloadable program can be used to make patterns change at set intervals so the signal tower can be used to count time or set a pace.
- Simple and easy to use complimentary programming software. The downloadable complimentary programming software can be used to easily control which colors are displayed and how they are to behave.

**How to Order**

<table>
<thead>
<tr>
<th>Signal Tower</th>
<th>LA6-</th>
<th>D</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example: LA6-STDNUB-RYGBC</td>
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</tbody>
</table>

- LED Tiers: 3, 5
- Body Color: Silver
- Flashing: Off-white
- With: LI. Silver
- Without: RYGBC 5 Tiers
- Direct: Direct/Terminal
- Cable: Steel Pole & Angle/Cable

The LED light color for each tier can be changed after purchase. *Li type does not have a “U” (Silver) specification.

**Dimensions** *(Unit: mm)*

**TN** Direct Mount / Terminal Block Type

- Mounting Surface Thickness Range: 4mm or less.
- Wire Length: 1060

**LJ** Steel Pole & 'L' Bracket Type

- Mounting Surface Thickness Range: 16mm or less.
- Wire Length: 1360

**WJ** Direct Mount / Cable Connection Type

- Mounting Surface Thickness Range: 16mm or less.
- Wire Length: 1560

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**Example:**

LA6-5DTNUB-RYGBC

• LED Tiers…5
• Body Color…Silver
• Flashing• Alarm…with Flash and Alarm
• Mounting/Wiring…Direct Mount/Terminal Buss
• Color…Red/Amber/Green/Blue/White

Display a variety of colors in various ways to improve your processes.
An internal Mode Switch is available. Use the internal mode switch to easily set up various functions, such as the alarm volume.

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.

Freely change luminescence colors and patterns with editing software. Upload colors and patterns using the editing program to the signal tower using an USB cable* connected to a PC.

* The USB cable is sold separately (USB microB type with Charging/ Data Transfer capability).

The alarm has a total of 11 sounds to match various applications.

The water-resistant speaker design is able to play clear sounds of up to 85 dB (at 1m) despite it’s compact size. Alarm sounds can be set up with every display pattern.

### Wiring

[Diagram of wiring connections]

### Replacement Parts

- **Headcover**
  - (Off-white) B31310001-7F1
  - (Silver) B31310001-9F1

- **USB Port Cover**
  - (Off-white) B22110071-7F1
  - (Silver) B22110071-9F1

- **Waterproof Ring ‘B’**
  - B25110042-F1

- **Pole Bracket**
  - (Off-white) B22210134-7F1

- **Waterproof O-ring**
  - B25110047-F1

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**Contact Relay**

- **Contact Relay (DC 24V Class 2)**

- **LED Tier 1 / Input 1**
- **LED Tier 2 / Input 2**
- **LED Tier 3 / Input 3**
- **LED Tier 4 / Input 4**
- **LED Tier 5 / Input 5**
- **Alarm 1 / Input 6**
- **Alarm 2 / Input 7**
- **Mode Change**
- **Power Supply Wire**
- **Power Supply Wire**

**PLC (NPN Transistor)**

- **External Contact**
- **PLC Output Unit 1**
- **PLC Output Unit 2**

**Sound**

- **Diffusion & Water Resistance**

**FLashing/Pulse Enable**

- **Lighting/Alarm**
- **Contact Relay**
- **LED Tier 1 / Input 1**
- **LED Tier 2 / Input 2**
- **LED Tier 3 / Input 3**
- **LED Tier 4 / Input 4**
- **LED Tier 5 / Input 5**
- **Alarm 1 / Input 6**
- **Alarm 2 / Input 7**
- **Mode Change**
- **Power Supply Wire**
- **Power Supply Wire**
## Specifications

### Model
- LA6-□D□□□□

### Rated Voltage
- DC24 V

### Operating Voltage Range
- ±10% of Rated Voltage

### Rated Power Consumption

<table>
<thead>
<tr>
<th>Standard</th>
<th>LA6-□□□□N-RYGBC</th>
<th>5W</th>
<th>LA6-□□□□B-RYGBC</th>
<th>6.5W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum</td>
<td>LA6-□□□□N-YYYYY</td>
<td>7W</td>
<td>LA6-□□□□B-YYYYY</td>
<td>8W</td>
</tr>
</tbody>
</table>

### Signal Wire Current
- Maximum: 70mA

### Standby Current
- Maximum: 15mA

### Operating Ambient Temperature
- -25℃ to +60℃

### Operating Humidity Range
- Less than 90% RH (No Dew or Condensation)

### Storage Temperature Range
- -25℃ to +60℃

### Storage Humidity Range
- Less than 90% RH (No Dew or Condensation)

### Mounting Location
- Indoor Only

### Mounting Direction
- Upright/Inverted Direction

### Protection Rating
- IP65 (With alarm: IP54) IEC 60529

### Test Condition
- Power Consumption test with alarm set at Alarm Sound No.1 at maximum volume

### Insulation Resistance
- More than 1Mohm at DC500V between the power input lead and chassis.

### Withstand Voltage
- 500VAC for 1min between terminals and chassis without breaking insulation

### Display Color
- red (1000 mcd) yellow (1700 mcd) green (2600 mcd) blue (1000 mcd) white (1250 mcd)

### Flash Rate
- 60 ±2 fpm

### Alarm Sound (Typical Frequency)

<table>
<thead>
<tr>
<th>No.</th>
<th>Frequency</th>
<th>Sound Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2400Hz</td>
<td>Continuous beep sound</td>
</tr>
<tr>
<td>2</td>
<td>2400Hz</td>
<td>Rapid intermittent beep</td>
</tr>
<tr>
<td>3</td>
<td>2400Hz</td>
<td>Long intermittent beep</td>
</tr>
<tr>
<td>4</td>
<td>2400Hz</td>
<td>Fast intermittent beep</td>
</tr>
<tr>
<td>5</td>
<td>3600Hz</td>
<td>Continuous beep</td>
</tr>
<tr>
<td>6</td>
<td>3600Hz</td>
<td>Rapid intermittent beep</td>
</tr>
<tr>
<td>7</td>
<td>3600Hz</td>
<td>Long intermittent beep</td>
</tr>
<tr>
<td>8</td>
<td>3600Hz</td>
<td>Fast intermittent beep</td>
</tr>
<tr>
<td>9</td>
<td>2400Hz &amp; 3375Hz</td>
<td>Multiplexed Beep</td>
</tr>
<tr>
<td>10</td>
<td>2400Hz &amp; 3600Hz</td>
<td>Multiplexed Beep</td>
</tr>
<tr>
<td>11</td>
<td>4000Hz &amp; 4800Hz</td>
<td>Multiplexed Beep</td>
</tr>
</tbody>
</table>

### Sound Level
- Maximum: 85dB

### Test Condition
- Alarm Sound No.1 measured from the front direction of the alarm opening at 1m

### Volume Control
- The set up button is the fourth step (Factory Default: Maximum).
  - [Maximum] -> [-5dB drop from maximum (standard)] -> [-10dB drop from maximum (standard)] -> [OFF] (-> Returns to [Maximum])

### Data Transfer Interface
- Main Unit: USB micro-B Terminal   Female   USB2.0/1.1 Interface, Transmission Rate: USB2.0/1.1/1.0
- Charge /Data Transfer Micro USB (not included); Connector: USB Male- USB (MicroB) male

### Application Software
- Exclusive Application Software (Downloadable from our Homepage)

### Mass (Tolerance 10%)

<table>
<thead>
<tr>
<th>Model</th>
<th>LA6-3D□□□□N</th>
<th>840g</th>
<th>LA6-3D□□□□□</th>
<th>1980g</th>
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<tbody>
<tr>
<td>LA6-3DTN:B</td>
<td>980g</td>
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<td>LA6-3DWJ:B</td>
<td>450g</td>
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<tr>
<td>LA6-3D□□□□□N</td>
<td>930g</td>
<td></td>
<td>LA6-3DWJ:N</td>
<td>400g</td>
</tr>
<tr>
<td>LA6-5DTN:B</td>
<td>1090g</td>
<td></td>
<td>LA6-5DJ:B</td>
<td>560g</td>
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<tr>
<td>LA6-5□□□□□□N</td>
<td>1040g</td>
<td></td>
<td>LA6-5DJ:N</td>
<td>510g</td>
</tr>
</tbody>
</table>

### Compliance Standards
- EMC Directive (EN 61000-6-4, EN 61000-6-2)
- RoHS Directive (EN 50581)
- ULS508, CSA-C22.2 No.14
- FCC Part 15 SubpartB Class A
- CE Marking

### Remarks
- UL Recognized Component (File No.E215660)
Case 1  Manage and control assembly line progress with "takt time visualization!"

Worker did not know how long it was taking to complete task, causing uneven progress of the entire assembly line and delays.

Before: Uneven task completion!

After: Visible progress -> Even completion!

Workers can pace themselves to complete their tasks on time. The entire line can move more evenly and delays are reduced.

Task progress is understood in real time!

Case 2  Replenish with precise timing with "cutting fluid level visualization!"

Cutting fluid level in the underground tank was unknown. Operators wasted a lot of time opening the tank to verify how much fluid was left.

Before: The amount of oil is unknown!

After: The amount of oil is visible from a distance!

The amount of fluid in the tank could be determined with a glance, even from great distances, allowing quicker response to multiple machines, and improved operator productivity.

Case 3  Various machines can be monitored more precisely for abnormal conditions!

Abnormalities for equipment was displayed and could be seen from a distance but its severity could not be determined unless extra time was taken to approach the machine.

Before: An error condition is not understood!

After: Various errors are now visible from a distance!

Now equipment can be checked for abnormalities at a glance from a distance, and when all tiers light up prompt attention can be given.

According to color, each status can be seen at a glance from a distance!