New Frontiers in Safety, Security and Comfort

- Signal & Cube Towers
- Rotating Warning Lights
- Voice Synthesizers
- Signal Horns
- Melody, Chime & Alarm Sounds

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Patlite (U.S.A.) Corp., California
Patlite (U.S.A.) Corp., Illinois

Specifications are subject to change without notice.
For many years Patlite has produced revolving warning lights and a variety of other dependable signal tower lights designed to enhance safety. Throughout our history we have contributed to people’s security. Society is now faced with an ever growing volume of increasingly complex data whose management will require more advanced information systems.

We are moving from simple signals to comprehensive systems, from safety and security to information and communication. Patlite is contributing to a safer, more affluent society through the application of comprehensive and reliable information technology.
Optional Parts

Mounting Poles & Brackets (mm)
- SZ-70L
- SZ-50L
- SZ-60T
- SZ-50T
- SZ-40L
- SZ-40T
- SZ-30L
- SL-100MM
- ST-100MM

Mounting Brackets (mm)
- SZ-010 (22mm)
- SZ-011 (17mm)
- SZ-016 (22mm)
- SZ-017 (22mm)
- SZ-020 (22mm)
- SZ-021 (17mm)

Rubber Gaskets (mm)
- SZ-200
- SZ-200A
- SZ-210

MODEL | PRODUCT
--- | ---
SZ-010, 016, 017 | LME, LME-L, RUP, SE-Q, ST, STPB
SZ-011 | LCE, LE-P, LES-A
SZ-020 | LME
SZ-021 | LCE, LE-P, LES-A
SZ-022 | LCE, LE-P, LES-A
SZ-023 | LCE, LE-P, LES-A
SZ-024 | LCE, LE-P, LES-A
SZ-025 | LCE, LE-P, LES-A
SZ-026 | LCE, LE-P, LES-A
SZ-027 | LCE, LE-P, LES-A
SZ-028 | LCE, LE-P, LES-A

Explanation of Codes and Symbols Used in this Catalog

<table>
<thead>
<tr>
<th>Code No.</th>
<th>Protection against solid objects</th>
<th>Protection against liquids</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>No protection.</td>
<td>No protection.</td>
</tr>
<tr>
<td>1</td>
<td>Protection against solid objects larger than ø 50mm.</td>
<td>Protection against vertical falling drops of water.</td>
</tr>
<tr>
<td>2</td>
<td>Protection against solid objects larger than ø 12mm.</td>
<td>Protection against dripping water when tilted up to 15°.</td>
</tr>
<tr>
<td>3</td>
<td>Protection against solid objects larger than ø 2.5mm.</td>
<td>Protection against spraying water.</td>
</tr>
<tr>
<td>4</td>
<td>Protection against solid objects larger than ø 1mm.</td>
<td>Protection against splashing water.</td>
</tr>
<tr>
<td>5</td>
<td>Protection against dust-limited ingress (dust-protected.)</td>
<td>Protection against water jets.</td>
</tr>
<tr>
<td>6</td>
<td>Total protection against dust (dust-tight.)</td>
<td>Protection against heavy seas.</td>
</tr>
<tr>
<td>7</td>
<td>Protection against the effects of immersion.</td>
<td>Protection against submersion.</td>
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<tr>
<td>8</td>
<td>Protection against submersion.</td>
<td>Protection against water jets.</td>
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</tbody>
</table>

Electronic Sound
- Buzzer Sound: Easy to recognize but gentle on the ears.

AC Motor
- Long-lasting brushless motor provides stable rotation.

Melody
- Melody: Familiar and easily recognized.

Xenon
- Use of Xenon bulb provides high visibility and minimizes bulb burn-out.

Dust-Proof
- Highly sealed design that keeps dust and dirt out.

Open Collector
- Open-collector compatible allows direct connection to a contactless PLC.

LED
- Use of high-luminance LED makes bulb changes unnecessary.

Drip-Proof
- Well-sealed housing keeps rain or other water out. Suitable for outdoor use.

Voice Synthesizer
- Message conveyed audibly. Select a message from the message library.

Water Proof
- Indicates the size and shape of signal lights or revolving lights.

Alarm
- Easy to hear but gentle on the ears.

Water Proof
- Provides a level of protection up to and including direct water jets.
### Table of Contents

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<thead>
<tr>
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<th>PHE</th>
<th>ME / MES</th>
<th>LCE</th>
<th>LES</th>
<th>LE / LEL</th>
<th>SE</th>
<th>LGE</th>
<th>LU7</th>
</tr>
</thead>
</table>

**Visual Lighting Products**

<table>
<thead>
<tr>
<th>DeviceNet™</th>
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<th>ME / MES</th>
<th>LCE</th>
<th>LES</th>
<th>LE / LEL</th>
<th>SE</th>
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</table>

**Audible Alarms**

<table>
<thead>
<tr>
<th>DeviceNet™</th>
<th>PHE</th>
<th>ME / MES</th>
<th>LCE</th>
<th>LES</th>
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<th>SE</th>
<th>LGE</th>
<th>LU7</th>
</tr>
</thead>
</table>

### PATLITE offers a variety of audible products with:
- **ALARMS** (such as KA or KD)
- **MELODIES/CHIMES** (such as LF or LQ)
- **MELODIES** (such as MG or MH).

For ordering, choose the Product and the Alarm type in the tables below. *(Example: EMB H-Type)*

### Sound List Selection Charts / Audible Products

<table>
<thead>
<tr>
<th>Model</th>
<th>Ch</th>
<th>ESB</th>
<th>ETB</th>
</tr>
</thead>
<tbody>
<tr>
<td>BT / EW</td>
<td>LF-Type</td>
<td>LG-Type</td>
<td>LS-Type</td>
</tr>
<tr>
<td>1</td>
<td>Shutter</td>
<td>Happy Birthday</td>
<td>Little Lullaby</td>
</tr>
<tr>
<td>2</td>
<td>Shutter</td>
<td>Mary Had a Little Lamb</td>
<td>Ave Maria</td>
</tr>
<tr>
<td>3</td>
<td>Bell</td>
<td>Little Bit of Heaven</td>
<td>Sonnig fürs Leben</td>
</tr>
<tr>
<td>4</td>
<td>Bell</td>
<td>In the Garden</td>
<td>Ave Maria</td>
</tr>
<tr>
<td>5</td>
<td>Melody</td>
<td>In the Garden</td>
<td>Ave Maria</td>
</tr>
<tr>
<td>6</td>
<td>Synthesized</td>
<td>In the Garden</td>
<td>Ave Maria</td>
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### Audible Products

<table>
<thead>
<tr>
<th>Model</th>
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<tbody>
<tr>
<td>BT / EW</td>
<td>LF-Type / LG-Type / LS-Type</td>
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<tr>
<td>1</td>
<td>Shutter</td>
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<tr>
<td>2</td>
<td>Shutter</td>
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<td>LS-Type</td>
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<td>Synthesized</td>
<td>In the Garden</td>
<td>Ave Maria</td>
<td></td>
</tr>
</tbody>
</table>
Audible Alarms

**KJT Series** Alarm with Rotating Light—The KJT Series combines highly visible multi-stack rotating lights with sound. Gives doubly effective warning signals.

**Dimensions (mm)**

- ø116mm
  - Colors available: red, yellow, green, and blue.
  - IP Rating: IP-23.
  - Integral alarm control.
  - Each alarm and each light in the tower can be operated separately or together.
  - Lenses are made of acrylic resin.
  - KJT-KA has 8 distinctive alert sounds.
  - KJT-L has 6 melodies and 2 chime sounds.
  - Optional mounting bracket: SZ-008.

**Wiring Diagrams**

**How to Order (Example)**

**Model** | **Light** | **Style** | **Color** | **Rated Voltage** | **Pre-Wired** | **Pre-Assembled** | **Open-Collector** | **NPN Compatibility** | **Optional Parts**
--- | --- | --- | --- | --- | --- | --- | --- | --- | ---
LME | 1 | 2: Light | R | 01:12V DC | Yes | Yes | Yes | Yes | No
LME | 2 | 2: Light | Y | 02: 24V (AC)/DC | Yes | Yes | Yes | Yes | No
KUS | 3 | 3: Light | G | 12: 120V AC | Yes | Yes | Yes | Yes | Yes
KJS/KJSB | 4 | 4: Light | B | 23: 230-240V AC | Yes | Yes | Yes | Yes | No
KJ/KJB | 5 | 5: Light | C | 16: 120V AC | Yes | Yes | Yes | Yes | Yes

See PATLITE’s Latest Products at www.patlite.com

Dedicated to the design and development of visual and audible signaling technology, PATLITE offers the industry’s most comprehensive selection of signal towers, cube towers, rotating warning lights, voice synthesizers and audible alarms used to indicate machine status!
Signal Towers

Signal Lights • Wall Mounts

Audible Alarms

LGEH Series Indicating Light w/Horn – The LGEH Series is a large horn and signal tower combination that supplies greater sound and visibility.

LGEH-FKA
Alarm Comes with 8 alarm sounds

LGEH-FL
Chime: Comes with 6 melodies and 2 chimes
Choose from Sound Types: F, Q, S

LGEH-FM
Melody: Comes with 8 melodies
Choose from Sound Types: G, H, P

LGEH-FV
Voice Synthesizer
Can replay 4 messages with 64 sec. of total program time

Dimensions (mm)

Wiring Diagrams

NOTE: See Page 45 for the Sound Type Selection Chart.
**Audible Alarms**

**PATLITE RT Series**

**Alarm with Rotating Light**

- **RT Series** Alarm with Rotating Light—The RT Series is a large horn and rotating light combination for increased plant floor coverage.

**RT Series**

- **Alarm**
  - Comes with 6 alarm sounds
- **RT-L**
  - Chime: Comes with 6 melodies and 2 chimes
  - Choice from Sound Types: F, G, S
- **RT-VS**
  - Voice Synthesizer
  - Can replay 4 messages with 64 sec. of total program time

**Specifications**

- **Type of Model**
  - RT-KA: Alarm
  - RT-L: Chime / Voice
  - RT-VS: Voice Synthesizer

**Colors available:** red, yellow, green, and blue.

- **IP Rating:** IP-23.
- **Adjustable volume control:** Max. 105dB/m* (*Max. 100dB/m for RT-VS).
- **Lenses are made of acrylic resin.**
- **NPN open collector transistor compatible.**
- **RT-VS requires message programming from the command library (free) or custom messages (optional).**
- **Clear, distortion-free playback.**
- **Eight Outputs:** RT-L & RT-K.
- **Four Outputs:** RT-VS.
- **Optional mounting bracket:** SZ-008.
- **220V version is available by special order only.**
- **IP-54 rated version by special order only.**

**Dimensions (mm)**

**Wiring Diagram**

**NOTE:** See Page 45 for the Sound Type Selection Chart.

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**Vision Light**

**NEW**

**The CLE Series**

**Machine Vision Light**—uses LEDs for illumination.

**CLE-24**

**CLE-24N**

** Specifications**

<table>
<thead>
<tr>
<th>Type Light</th>
<th>CLE-24</th>
<th>CLE-24N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spot Size</td>
<td>Wide Spot</td>
<td>Narrow Spot</td>
</tr>
<tr>
<td>Pearl White</td>
<td>3W (Design)</td>
<td>3W (Design)</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>3W (Design)</td>
<td>3W (Design)</td>
</tr>
<tr>
<td>Protection Rating</td>
<td>IP-65f</td>
<td>IP-65f</td>
</tr>
<tr>
<td>Abandon</td>
<td>19.6 mcd (25G)</td>
<td>19.6 mcd (25G)</td>
</tr>
<tr>
<td>Lens Glass</td>
<td>Frosted</td>
<td>Clear</td>
</tr>
</tbody>
</table>

**Dimensions (mm)**

**Dimensions (mm)**

- ** Ø71mm**
  - Designed for the machine tool, process, inspection, and image processing industries.
  - Superior brightness with high intensity LEDs.
  - Low power consumption, low noise, and low heat.
  - Anodized aluminum body that is rust, corrosion & oil-proof.
  - Lens made of reinforced shock resistant glass for lasting lens transparency.
  - Lens glass is frosted for CLE-24, and is clear for CLE-24N.
  - Long life and high reliability even in harsh environments.
  - Meets IP-65f.

**POWER CABLE LENGTH**

- **CLE-24:** 1.5 mm², 1.5 kV
- **CLE-24N:** 1.0 mm², 1.0 kV

**NOTE:** See Page 45 for the Sound Type Selection Chart.
3 Signal Towers available with DeviceNet™ or As-i

If your control bus is a DeviceNet™ or As-i system, Patlite has three signal tower choices for you. This low cost industrial network solution is rapidly growing in popularity. DeviceNet™ or As-i can give you the connectivity to eliminate expensive wiring while providing device-level diagnostics and control. Our DeviceNet™ and As-i series will improve machine/operator communication and increase production. These high quality LED status indicators feature bright and long lasting LEDs, as well as a modern, aesthetic design. All models have an audible alarm option. LE and LHE have pole mount capability.

**LE-D3 / LE-E3**
- 50mm Diameter
- Wall Mounting

**WEP-D3 / WEP-E3**
- 37.5mm Profile
- Wall Mounting

**LHE-D3 / LHE-E3**
- 70mm Diameter
- Pole Mounting

**As-i Type**
- DeviceNet™ Direct
- LE-D3W
- LE-E3W
- LE-E3BP
- LHE-D3
- LHE-E3
- LHE-E3BP

**DeviceNet™ Type**
- LE-D3W
- LE-E3W
- LE-E3BP
- WEP-D3
- WEP-E3
- WEP-E3BP

**Other configurations available.**

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### Audible Alarms

**BM Compact Panel Mount Alarm**
The BM Series, extremely small design completely with two buzzer sounds. Ideal for use with control panels or production equipment.

- **IP-34**
- **90 dBm**
- Open Collector
- Pre-Assembled

- **50mm square (ø30mm)**
  - Ultra compact size.
  - Provided with 2 selectable, distinctive alert sounds.
  - High volume in a compact unit (volume is not adjustable).
  - NPN or PNP open collector transistor compatible (24 V type only).
  - Continuous contact closure replays selected channel repeatedly.
  - Channel 1 has priority.

**BA/BC Compact Panel Mount Alarm**
The BA/BC Series, dust and waterproof design (IP-54) allows trouble-free use in harsh environments.

- **IP-65**
- **85 dBm**
- Open Collector
- Pre-Assembled

- **80mm square**
  - BA has 4 distinctive alert alarms, BC has 2 melodies and 2 chimes.
  - Integral volume control.
  - NPN open collector transistor compatible, PNP compatible by special order only.
  - Utilizes a mylar cone speaker for dust resistance.

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**LE-D3**
- Direct
- LE-D3W
- LE-D3BP

**LE-E3**
- Direct
- LE-E3W
- LE-E3BP

**LHE-D3**
- Direct
- LHE-D3
- LHE-D3BP

**WEP-D3**
- Wall
- WEP-D3
- WEP-D3BP

**As-i Type**
- DeviceNet™ Direct
- LE-E3W
- LE-E3BP
- LHE-E3
- LHE-E3BP
- WEP-E3
- WEP-E3BP

**Other configurations available.**

---

### Dimensions (mm)

**LE-D3**
- 50mm Diameter
- 37.5mm Profile

**WEP-D3**
- 37.5mm Profile
- Wall Mounting

**LHE-D3**
- 70mm Diameter
- Pole Mounting

---

### Other configurations available.

---

### Patent Information

DeviceNet is a Trademark of the Open DeviceNet Vendor Association, Inc.
Audible Alarms

EB-K, EB-L

EMB, ESB

ETB-B

Box Style Alarm

EB-K
8 Output
Alarm

EB-L
8 Output
Choose from Sound Types: F, Q, S

EMB
8 Output
Melody
Choose from Sound Types: G, H, P

ESB
1 Output
Alarm

ETB-B
4 Output
Alarm

Dimensions (mm)

133mm square

- LSI digital synthesizer assures continuous high quality sound reproduction for the life of the system.
- Two mounting options: wall or panel mount.
- Units are operated by a continuous contact closure and replay selected channel repeatedly.
- EB-K has 8 distinctive alert sounds.
- EB-L has 6 melodies and 2 chimes.
- EMB has 8 different popular melodies.
- ESB has 1 output, alarm.
- ETB-B has 4 different alarm sounds.

NOTE: See Page 45 for the Sound Type Selection Chart.

Signal Towers

The EB, EMB, ESB and ETB Series have a simple box design that fits with various types of machinery.

PC Controlled Light

PHE-3FB

Specifications

Voltage
24V DC
(AC Adapter included)

Power Consumption
Approx. 6.5W

Input Interface
RS-232C (or USB with converter)

Weight
PHE-3FB: 580g
AC Adapter: 160g

Dimensions (mm)

The PHE-3FB is controlled through the RS232C port on your personal computer.

Application examples:
- To supervise your personal computer, server and/or workstation.
- To indicate the status of a process.
- RFID applications.

PC-controlled Signal Tower Light—

NEW

The PHE-3FB

Easy to program.

Connect with RS232C cable directly to your PC, or by USB with converter.

Two selectable single-tone, intermittent alarms with adjustable volume to 85dB (at 1m).

Light has continuous and flashing options.

A reset switch can resume the system to the original status.

Light uses Patlite’s unique Double Reflection LED system to create full and brilliant color.

To see the Control Protocols, go to www.patlite.com.

RS232C straight-through cable required.

Comes with standard light configuration: red/yellow/green.

PHE-3FB

Chime

Choose from Sound Types: F, Q, S

Melody

Choose from Sound Types: G, H, P

Type Light

- Easy to program.
- Connect with RS232C cable directly to your PC, or by USB with converter.
- Two selectable single-tone, intermittent alarms with adjustable volume to 85dB (at 1m).
- Light has continuous and flashing options.
- A reset switch can resume the system to the original status.
- Light uses Patlite’s unique Double Reflection LED system to create full and brilliant color.
- To see the Control Protocols, go to www.patlite.com.
- RS232C straight-through cable required.
- Comes with standard light configuration: red/yellow/green.

PC Controlled Light

PHE-3FB

Specifications

Voltage
24V DC
(AC Adapter included)

Power Consumption
Approx. 6.5W

Input Interface
RS-232C (or USB with converter)

Weight
PHE-3FB: 580g
AC Adapter: 160g

Dimensions (mm)

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Application examples:
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Light has continuous and flashing options.

A reset switch can resume the system to the original status.

Light uses Patlite’s unique Double Reflection LED system to create full and brilliant color.

To see the Control Protocols, go to www.patlite.com.

RS232C straight-through cable required.

Comes with standard light configuration: red/yellow/green.
**PATLITE**

**ME Series** Super Slim Indicating Light—
The ME Series are direct mounted, super slim lights with rust free aluminum bodies.

<table>
<thead>
<tr>
<th>Type Light</th>
<th>40mm Body Size</th>
<th>200mm Body Size</th>
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</thead>
<tbody>
<tr>
<td><strong>MES-T</strong></td>
<td>0.8W</td>
<td></td>
</tr>
<tr>
<td><strong>ME-T</strong></td>
<td>1.2W</td>
<td></td>
</tr>
</tbody>
</table>

12V DC version available by special order.

**Optional Mounting Brackets**

*Requires SZ-903 Adapter

**NOTE:** See pages 22 & 23 for wiring and dimensions.

**Colors available:** red, yellow, green, blue, and clear.

**Lenses are clear (no color) until power supplied.**

**Rust & corrosion proof anodized aluminum tower body.**

**Can be mounted on a flat surface with a single hole.**

**IP-54 rating, and NPN open collector compatible.**

**PNP open collector version is available by special order (minimum 5 pieces per order).**

**Standard body size:** 200mm ME.

**Shorter body size:** 40mm MES.

**Includes lock nut and chase nipple.**

**LED modules are interchangeable and stackable after purchase (up to 5 LED modules).**

**Audible Alarms**

**EW/EWS Series** Horn Style Alarm—
The EW/EWS Series with large volume, is perfect for use in noisy factories.

- **Horn Style Alarm**
  - **EW-KA / EWS-KA** Alarm
  - **EW-L / EWS-L** Chime (Choose from Sound Types: F, G, S)
  - **EW-M / EWS-M** Melody (Choose from Sound Types: G, H, P)

**Dimensions (mm)**

- **EW**
- **EWS**

**NOTE:** See Page 45 for the Sound Type Selection Chart.

**EW/EWS Models**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Voltage</th>
<th>Nominal Current</th>
<th>Volume</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>EWV/EWS21W</td>
<td>24V AC/DC</td>
<td>0.9W</td>
<td>1.2kg</td>
<td></td>
</tr>
<tr>
<td>EWV/EWS24V</td>
<td>48V DC</td>
<td>1.0W</td>
<td>1.2kg</td>
<td></td>
</tr>
<tr>
<td>EWV/EWS220V</td>
<td>220V AC</td>
<td>1.2W</td>
<td>1.2kg</td>
<td></td>
</tr>
<tr>
<td>EWV/EWS24V1</td>
<td>48V DC</td>
<td>1.1W</td>
<td>1.2kg</td>
<td></td>
</tr>
<tr>
<td>EWV/EWS24V2</td>
<td>48V DC</td>
<td>1.2W</td>
<td>1.2kg</td>
<td></td>
</tr>
<tr>
<td>EWV/EWS24V3</td>
<td>48V DC</td>
<td>1.3W</td>
<td>1.2kg</td>
<td></td>
</tr>
<tr>
<td>EWV/EWS24V4</td>
<td>48V DC</td>
<td>1.4W</td>
<td>1.2kg</td>
<td></td>
</tr>
</tbody>
</table>

48V, 200V and 220V versions only available by special order.

**NOTE:** See pages 22 & 23 for wiring and dimensions.
**Signal Towers**

**PVW Series Playback Only**—
The PVW Series is perfect for use in noisy environments. They can replay messages up to 64 seconds long.

- Meets IP-53.
- Anti-corrosive stainless steel bracket.
- Clear sound with original wide horn style.
- High volume, maximum 105dB at 1m.
- NPN open collector permits direct connection to a PLC.
- Internal adjustable volume control to match a range of environments.
- PVW-04: Up to 4 messages for a total of 64 seconds can be set.
- PVW-15: Up to 15 messages for a total of 64 seconds can be set.
- Clear sound from voice synthesizers is given by the high bit rate (ADPCM 64 bit/s).
- Available with optional extension amplifier (PVA-30=30W) connected to AUX OUT.
- Replaying message may be stopped by "stop" input.
- The playback start signal is input from a switch on an external device. If the signal is received once, the message will be played once; and if the signal is continued, the message will be repeated.

**Dimensions (mm)**

**Wiring Diagram**

**PVW-04 / 15 Voice Synthesizer**

- 48V and 220V versions only available by special order.

---

**LCE Series Indicating Light**—
The LCE Series offers the latest in LED technology. Versatile and energy efficient.

<table>
<thead>
<tr>
<th>Model</th>
<th>Type Light</th>
<th>Color Options</th>
<th>Power Supply</th>
<th>Mounting Options</th>
</tr>
</thead>
</table>
| LCE-W | Continuous Light | Red, Yellow, Green, Blue, Clear | 24V Type | Pole Mount
| LCE-(T)FB | Continuous and Flashing Light with Audible Alarms | | | Direct Mount
| LCE-(T)W | Continuous Light | | | Pole Mount
| LCE-(T)FBW | Continuous and Flashing Light with Audible Alarms | | | Direct Mount

- Colors available: red, yellow, green, blue, and clear.
- Super high intensity LEDs and low operating costs, low power consumption & maintenance free.
- FB types: Two selectable single-tone, intermittent alarms with adjustable volume to 85dB (at 1m).
- Pole mount types include 300mm steel pole and mounting bracket (SZ-012) with nuts and washers.
- NPN or PNP open collector compatible (24V type), and NPN open collector compatible (90-250V type).
- Free-voltage style available, 90 to 250V AC.
- LED modules are interchangeable and stackable after purchase (up to 5 LED modules).
**LES Series Indicating Light—**

The LES Series is a quality, cost saving, LED signal tower with prices below incandescent.

### Pole Mount

<table>
<thead>
<tr>
<th>Style</th>
<th>Model</th>
<th>Rated Voltage</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Light</td>
<td>LES-A</td>
<td>24V AC/DC</td>
<td>0.6W</td>
</tr>
<tr>
<td>2 Light</td>
<td>LES-AW</td>
<td>24V AC/DC</td>
<td>1.2W</td>
</tr>
<tr>
<td>3 Light</td>
<td>LES-AW</td>
<td>24V AC/DC</td>
<td>1.7W</td>
</tr>
<tr>
<td>4 Light</td>
<td>LES-AW</td>
<td>24V AC/DC</td>
<td>2.2W</td>
</tr>
<tr>
<td>5 Light</td>
<td>LES-AW</td>
<td>24V AC/DC</td>
<td>2.7W</td>
</tr>
</tbody>
</table>

**Note:**
- LED modules cannot be added after purchase.
- Bottom LED module cannot be removed or interchanged.
(Consult with factory if other combinations are required)

### Direct Mount

LES-AW **Continuous Light**

### Optional Mounting Brackets (See Pg. 46 & 47)

<table>
<thead>
<tr>
<th>Mounting Bracket</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>SZ-010*</td>
<td></td>
</tr>
<tr>
<td>SZ-011</td>
<td></td>
</tr>
<tr>
<td>SZ-016*</td>
<td></td>
</tr>
<tr>
<td>SZ-017*</td>
<td></td>
</tr>
<tr>
<td>SZ-021</td>
<td></td>
</tr>
<tr>
<td>SZ-903</td>
<td></td>
</tr>
</tbody>
</table>

*Requires SZ-903 adapter

### ø50mm

- Colors available: red, yellow, green, blue, and clear.
- Meets IP-54 (Sealant required for mounting pole and bracket).
- Features high intensity LEDs, offering low costs, low power consumption and maintenance free.
- Lenses are made of acrylic resin.
- NPN or PNP open collector compatible.
- Units are shipped completely pre-wired and pre-assembled.
- Pole mount type includes 300mm steel pole and mounting bracket (SZ-012) with nuts and washers.

**Note:** See pages 22 & 23 for wiring and dimensions.
**LE Series Indicating Light—**

The LE Series can mount up to five colors, and has an improved alarm and LED system.

**Pole Mount**

- **LE-P** Continuous Light
- **LE-FBP** Continuous and Flashing Light with Audible Alarms

**Direct Mount**

- **LEL-W** Continuous Light
- **LEL-FBW** Continuous and Flashing Light with Audible Alarms

**Continuous and Flashing Light with Audible Alarms**

- Colors available: red, yellow, green, blue, and clear.
- LED modules are interchangeable and stackable after purchase (up to 5 LED modules).
- FB type: Two selectable single-tone, intermittent alarms with adjustable volume to 85dB (at 1m).
- LE-P: Includes 300mm steel pole with nuts and washers (optional brackets available).
- 12V version is only available by special order.
- NPN or PNP open collector compatible for 24V, NPN for 120V.
- See page 8 for DeviceNet™ or As-i versions.

**Available with DeviceNet or As-i**
**SE-T Series Indicating Light—**

The SE-T Series LED Signal Tower is brighter than ever!

### Pole Mount

<table>
<thead>
<tr>
<th>SE-T</th>
<th>Continuous Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEFB-T</td>
<td>Continuous and Flashing Light with Audible Alarms</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Style</th>
<th>Model</th>
<th>Rated Voltage</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Light</td>
<td>SE / SEFB-102T</td>
<td>24V AC/DC</td>
<td>1.5W</td>
</tr>
<tr>
<td>2 Light</td>
<td>SE / SEFB-112T</td>
<td>120V AC</td>
<td>3.0W</td>
</tr>
<tr>
<td>3 Light</td>
<td>SE / SEFB-202T</td>
<td>24V AC/DC</td>
<td>2.5W</td>
</tr>
<tr>
<td>4 Light</td>
<td>SE / SEFB-212T</td>
<td>120V AC</td>
<td>5.0W</td>
</tr>
<tr>
<td>5 Light</td>
<td>SE / SEFB-302T</td>
<td>24V AC/DC</td>
<td>3.5W</td>
</tr>
<tr>
<td>6 Light</td>
<td>SE / SEFB-312T</td>
<td>120V AC</td>
<td>5.0W</td>
</tr>
<tr>
<td>7 Light</td>
<td>SE / SEFB-402T</td>
<td>24V AC/DC</td>
<td>4.5W</td>
</tr>
<tr>
<td>8 Light</td>
<td>SE / SEFB-412T</td>
<td>120V AC</td>
<td>7.5W</td>
</tr>
<tr>
<td>9 Light</td>
<td>SE / SEFB-502T</td>
<td>24V AC/DC</td>
<td>5.5W</td>
</tr>
<tr>
<td>10 Light</td>
<td>SE / SEFB-512T</td>
<td>120V AC</td>
<td>8.5W</td>
</tr>
</tbody>
</table>

- Colors available: red, yellow, green, blue, and clear.
- IP Rating: IP-54.
- LED modules are interchangeable and stackable after purchase (up to 5 LED modules).
- FB type: Two selectable single-tone, intermittent alarms with adjustable volume to 90dB (at 1m).
- NPN or PNP open collector compatible (24V type), and NPN open collector compatible (120/220V type).
- The units are shipped completely pre-wired and pre-assembled.
- Includes 300mm steel pole and mounting bracket (SZ-013) with nuts and washers.

220V AC version available by special order only.

**Optional Mounting Brackets**

- SZ-010
- SZ-016
- SZ-017
- SZ-904

**NOTE:** See pages 22 & 23 for wiring and dimensions.
The LME Series—
The LME Series provides the latest in LED technology.

- **LME-T**
  - Continuous Light

- **LME-TFB**
  - Continuous and Flashing Light
  - With Audible Alarms

- **LME-TW**
  - Continuous Light

- **LME-TFBW**
  - Continuous and Flashing Light
  - With Audible Alarms

---

**LED Type Light**

**ø60mm**

- Colors available: red, yellow, green, blue, and clear.
- *IP Rating: IP-65 (FB Type: IP-54).
- LED modules are interchangeable and stackable after purchase, up to 5 LED modules (New shaft purchase is required).
- FB type: Two selectable single-tone, intermittent alarms with adjustable volume to 90dB (at 1m).
- Pole mount version comes with 300mm aluminum pole and plastic topmount bracket.
- NPN or PNP open collector (24V type), and NPN open collector (120V type).

---

**The LME-Q Series—
Four colors in a single stack**

- **LME-T-Q**
  - Continuous Light

- **LME-TFB-Q**
  - Continuous and Flashing Light
  - With Audible Alarms

- **LME-TW-Q**
  - Continuous Light

- **LME-TFBW-Q**
  - Continuous and Flashing Light
  - With Audible Alarms

---

- 3 color combinations available:
  - Q1 : Red/Yellow/Green/Blue
  - Q2 : Red/Yellow/Green/Clear
  - Q4 : Yellow/Green/Blue/Clear
- Most features are the same as the LME series (see above).
**LU7 Series**

**Modular System Indicating Light**—
is perfect for OEMs that offer different multi-stack versions in their machine design.

**How to Order:**

<table>
<thead>
<tr>
<th>Base Module (including cap)</th>
<th>Model</th>
<th>Rated Voltage</th>
<th>Alarm / Flash</th>
</tr>
</thead>
<tbody>
<tr>
<td>LU7-02</td>
<td>24V DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LU7-02FB</td>
<td>24V DC</td>
<td>2 Alarms / Flash</td>
<td></td>
</tr>
<tr>
<td>LU7-M2</td>
<td>90~250V AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LU7-M2FB</td>
<td>90~250V AC</td>
<td>2 Alarms / Flash</td>
<td></td>
</tr>
</tbody>
</table>

**Terminal Wiring Chart**

<table>
<thead>
<tr>
<th>Terminal Number</th>
<th>Corresponding Unit or Operation</th>
<th>Diagram 1</th>
<th>Diagram 2</th>
<th>Diagram 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>CN2-1</td>
<td>Red LED Unit</td>
<td>Light Wire 1</td>
<td>Light Wire 1</td>
<td>Light Wire 1</td>
</tr>
<tr>
<td>CN2-2</td>
<td>Yellow LED Unit</td>
<td>Light Wire 2</td>
<td>Light Wire 2</td>
<td>Light Wire 2</td>
</tr>
<tr>
<td>CN2-3</td>
<td>Green LED Unit</td>
<td>Light Wire 3</td>
<td>Light Wire 3</td>
<td>Light Wire 3</td>
</tr>
<tr>
<td>CN2-4</td>
<td>Blue LED Unit</td>
<td>Light Wire 4</td>
<td>Light Wire 4</td>
<td>Light Wire 4</td>
</tr>
<tr>
<td>CN2-5</td>
<td>Clear LED Unit</td>
<td>Light Wire 5</td>
<td>Light Wire 5</td>
<td>Light Wire 5</td>
</tr>
<tr>
<td>CN2-6</td>
<td>Continuous Alarm</td>
<td>Alarm 1</td>
<td>Alarm 1</td>
<td>Alarm 1</td>
</tr>
<tr>
<td>CN2-7</td>
<td>Intermittent Alarm</td>
<td>Alarm 2</td>
<td>Alarm 2</td>
<td>Alarm 2</td>
</tr>
<tr>
<td>CN2-8</td>
<td>Power Supply</td>
<td>Power 1</td>
<td>Continuous Common</td>
<td></td>
</tr>
<tr>
<td>CN2-9</td>
<td>Flashing Common</td>
<td>Flashing Common</td>
<td>Flashing Common</td>
<td></td>
</tr>
<tr>
<td>CN2-10</td>
<td>High Voltage Supply</td>
<td>N / A</td>
<td>Power 1</td>
<td>Power 2</td>
</tr>
<tr>
<td>CN2-11</td>
<td>High Voltage Supply</td>
<td>N / A</td>
<td>Power 2</td>
<td>N / A</td>
</tr>
<tr>
<td>CN2-12</td>
<td>Earth Ground</td>
<td>Earth Ground</td>
<td>Earth Ground</td>
<td>Earth Ground</td>
</tr>
</tbody>
</table>

**NOTE:** See page 23 for dimensions.

**Terminal Diagram**

- No tools required to assemble.
- Easy wiring with spring loaded terminal block.
- NPN or PNP open collector compatible (24V type), and NPN open collector compatible (90-250V type).
- Available in 24V DC and Free-Voltage, 90 to 250V AC.
- FB type: Two selectable single-tone alarms, one intermittent and one continuous, with adjustable volume to 90dB (at 1m), and light has 60 flashes per minute.
- Pole mount options available: SZ-50L, SZ-50T (see pages 46-47).
- Once mounted on a machine, the tower can easily be re-installed without tools.

**Audible Alarms**

**BT Series Audible Alarm**—
The BT Series, with voice, melody, chime and alarm capability, has variable audible control. Includes a compact, but loud speaker.

**BT-KA**
- 8 distinctive alert sounds.

**BT-L**
- 6 melodies and 2 chime sounds.
- Choose from F, Q, or S types.

**BT-M**
- 8 different popular melodies.
- Choose from G, H, or P type combinations.

**BT-V**
- A programmable voice unit that can replay up to 6 messages with 64 sec. of total program time.
- Produces a clear 64Kbit/sec. sound.
- Select voice messages, alarms, chimes and melodies from our command library.
- Custom message programming is also available.

**Dimensions (mm)**

- **BT-KA:** Has 8 distinctive alert sounds.
- **BT-L:** 6 melodies and 2 chime sounds. Choose from F, Q, or S types.
- **BT-M:** 8 different popular melodies. Choose from G, H, or P types.
- **BT-V:** Select voice messages.

**NOTE:** See page 45 for the Sound Type Selection Chart.
Signal Towers

LGE Series Large Indicating Light—
The LGE Series is suitable for larger machines. Increased visibility at great distances with a modular design.

Light Modules

**LGER**
- Red
- Yellow
- Green
- Blue
- Clear

Power Units

**LGEBC**
- Continuous Light

**LGEBC-FB**
- Continuous and Flashing Light with Audible Alarm

Shaft Assembly

**LGSHAFT**

### Light-Module

<table>
<thead>
<tr>
<th>Light Unit</th>
<th>Color</th>
<th>Rated Voltage</th>
<th>Wetness</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGER-12R</td>
<td>Red</td>
<td>24V AC/DC</td>
<td>2W</td>
</tr>
<tr>
<td>LGER-12Y</td>
<td>Yellow</td>
<td>24V AC/DC</td>
<td>2W</td>
</tr>
<tr>
<td>LGER-12G</td>
<td>Green</td>
<td>24V AC/DC</td>
<td>2W</td>
</tr>
<tr>
<td>LGER-12B</td>
<td>Blue</td>
<td>24V AC/DC</td>
<td>2W</td>
</tr>
<tr>
<td>LGER-12C</td>
<td>Clear</td>
<td>24V AC/DC</td>
<td>2W</td>
</tr>
</tbody>
</table>

### Power Unit

<table>
<thead>
<tr>
<th>Power Unit</th>
<th>Rated Voltage</th>
<th>Type of Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGEBC-12</td>
<td>12V AC</td>
<td>Continuous</td>
</tr>
<tr>
<td>LGEBC-24</td>
<td>24V AC/DC</td>
<td>Continuous</td>
</tr>
<tr>
<td>LGEBC-12F</td>
<td>12V AC</td>
<td>Continuous/Flashing</td>
</tr>
<tr>
<td>LGEBC-24F</td>
<td>24V AC/DC</td>
<td>Continuous/Flashing</td>
</tr>
</tbody>
</table>

### Shaft Assembly

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Light Module Per Base Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGSHAFT 1</td>
<td>1</td>
</tr>
<tr>
<td>LGSHAFT 2</td>
<td>2</td>
</tr>
<tr>
<td>LGSHAFT 3</td>
<td>3</td>
</tr>
<tr>
<td>LGSHAFT 4</td>
<td>4</td>
</tr>
</tbody>
</table>

How to Order

(Example)

1. Power Unit: LGEBC-120FB x 1 pc
2. Light Module: LGEM24-FR x 1 pc
3. Shaft Assembly: LGSHAFT 3 x 1 pc

Note: LGER contains a transformer that steps down the input voltage to 24V DC.

Optional Mounting Brackets

(Sizes available up to 1000mm)

How to Order

(Example)

1. Power Unit: LGEBC-120FB x 1 pc
2. Light Module: LGEM24-FR x 1 pc
3. Shaft Assembly: LGSHAFT 3 x 1 pc

Note: LGER contains a transformer that steps down the input voltage to 24V DC.

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**WE Series Wall Mounted Indicator** — The WE Series are Ultra-Slim Signal Lights that offer seamless integration with equipment.

###_WE-T_ Continuous Light

**WE-TFB** Continuous and Flashing Light with Audible Alarms

**WEP-T** Continuous Light

**WEP-TFB** Continuous and Flashing Light with Audible Alarms

###LED Type Light

**Available with DeviceNet or As-i**

**37.5mm Profile**

- Colors available: red, yellow, green, blue, and clear.
- *IP Rating: IP-65 / FB type: IP-54 (FB type must be installed with alarm opening downward).
- FB type: Two selectable single-tone, intermittent alarms with volume 90dB (at 1m).
- Mounting: Vertical or Horizontal positions.
- NPN or PNP open collector compatible.
- See page 8 for DeviceNet™ and As-i versions.

**NOTE:** Pages 22 & 23 for wiring and dimensions.

Refer to the wiring diagrams below to determine wiring and wire colors.
Rotating Cube Tower

**KJS/KJSB**

**Slim Size**
- KJ S: Rotating Beacon with Audible Alarm
- KJSB: Square 82mm Ø82mm
  - Electronic Alarm: 1
  - Pre-Assembled Pre-Wired

**KJ/KJB**

**Standard Size**
- KJ: Rotating Beacon with Audible Alarm
- KJB: Square 116mm Ø116mm
  - Electronic Alarm: 1
  - Pre-Assembled Pre-Wired

**KJS/KJSB**

**Slim Size**
- Mirrored parabolic reflector increases visibility on this slim rotating beacon.
- Pre-Assembled Pre-Wired

**KJ/KJB**

**Standard Size**
- Larger beacon uses mirrored parabolic reflector for increased visibility.
- Pre-Assembled Pre-Wired

**NOTE:** See page 31 for wiring diagrams.

---

**Signal Towers**

**Patlite**

**KJS/KJSB Slim Size—**
- Mirrored parabolic reflector increases visibility on this slim rotating beacon.
- Pre-Assembled Pre-Wired

**KJ/KJB B Series Standard Size—**
- Larger beacon uses mirrored parabolic reflector for increased visibility.
- Pre-Assembled Pre-Wired

---

**WM Series Wall Mounted Indicator**

- The WM Series solves your space problems! Designed for easy mounting to save you both time and money.

**WME-A**
- Continuous Light
- NE: See pages 22 & 23 for wiring and dimensions.
- Colors available: red, yellow, green, blue, and clear.
- *IP Rating: IP-65 (FB versions, upright only).
- Can be mounted vertically or horizontally to either front panel or ceilings.
- Alarms: WME-AFB type includes two selectable, single-tone intermittent alarms with volume 80dB (at 1m), while WM-TFB type has 1 alarm with an alternating 2-tone.
- FB types: approx. 60 flashes per minute.
- WME-A types: Free-voltage style available, 90 to 250V AC.
- NPN or PNP open collector compatible (24V DC only).
- 1 stack versions available by special order for WME-A/AFB.

**WME-AFB**
- Continuous and Flashing Light with Audible Alarms

**WM-T**
- Continuous Light

**WM-TFB**
- Continuous and Flashing Light with Audible Alarm

**NOTE:** See pages 22 & 23 for wiring and dimensions.

---

**80mm Profile**
- Colors available: red, yellow, green, blue, and clear.
- *IP Rating: IP-65 (FB versions, upright only).
- Can be mounted vertically or horizontally to either front panel or ceilings.
- Alarms: WME-AFB type includes two selectable, single-tone intermittent alarms with volume 80dB (at 1m), while WM-TFB type has 1 alarm with an alternating 2-tone.
- FB types: approx. 60 flashes per minute.
- WME-A types: Free-voltage style available, 90 to 250V AC.
- NPN or PNP open collector compatible (24V DC only).
- 1 stack versions available by special order for WME-A/AFB.
**Signal Towers**

**WSL**

**Manual Indicating Light**

**WSL**

Continuous Light

**WSLF**

Continuous and Flashing Light

with Audible Alarms

<table>
<thead>
<tr>
<th>WSL Type</th>
<th>WSLF Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSL-3W-RYG (bld)</td>
<td>WSLF-3W-RYG (bld)</td>
</tr>
<tr>
<td>WSL-3D-RYG (bld)</td>
<td>WSLF-3D-RYG (bld)</td>
</tr>
</tbody>
</table>

**LED Type Light**

Application Examples:
- Assembly workstation process indicator.
- Office and warehouse employee status indicator light.
- Cashier and bank teller availability light.
- Any type of manually operated assembly shop.

**ø50mm**

- WSL/WSLF colors available: red, yellow, green, blue, and clear.
- HSST standard colors: red, yellow, and green.
- LED illuminating light offers maintenance-free operation.
- AC power adapter makes set-up easy in any location. (UL Listed)
- WSL/WSLF come with durable steel control box with rocker switches and 2 pole mounting options.
- WSL: Optional pole up to 1,000mm (SL-1000) available.
- WSLF version includes two separate alarms, and alarm can be added to one or all colors.
- HSST comes as a complete kit which includes:
  - 3 LED signal tower in red/yellow/green with 4 ft. cable.
  - 120V AC power supply with 6 ft. cord length.
  - 3 button switchbox with mounting screws.
  - 2 position mounting bracket with 2 adjustment screws.
  - 3 and 12 inch mounting poles.
  - Extension cable available in 10 ft. segments (DT-HSST-10).

**HSST**

**Manual Indicating Light**

**HSST-312-RYG**

Continuous Light

The HSST-312 kit, complete as shown below:

**HSST Series Multi-Layer Units—**

The KUS Series cube tower, with advanced technology, combines two different lights on one unit and has a modular design.

**KUS Series Multi-Layer Units—**

**Light Units**

- **KUS-S**
  - Incandescent Bulb Type
  - Red Yellow Green Blue Clear

**KUS-EA**

- LED Type
  - Red Yellow Green

**Alarm Unit**

**KUS-B**

**Base Units**

**KUS-F**

Continuous or Flashing Light

**ø70mm**

- IP Rating: IP-54 (except the KUS-B).
- Lenses: Made of heat & shock resistant polycarbonate resin.
- Light modules can be stacked up to 4 high in any color combination.
- Each light module has a built-in dip switch to control the light, on or off.
- Light units and base unit sold separately.
- Maximum operating capacity of base unit is 21 watts.
- KUS-F flashes 60 times a minute.

**How to Order**

(Example)

Three LED lights (Red, Yellow, Green) with flashing at input voltage of 24V AC/DC:
1. Power Unit: KUS-24F x 1 pc
2. Light Module: KUS-EA-R x 1 pc, KUS-EA-Y x 1 pc, KUS-EA-G x 1 pc

NOTE: See page 31 for wiring diagram.

**NOTE:** Optional custom poles up to 1000mm available. (ST-1000mm)

**Assembly Required**

**HSST-312-RYG**

Continuous Light

**Continuous Light**

**Continuous and Flashing Light**

with Audible Alarms

**WSL-3D-RYG**

Desktop

**WSL-3W-RYG**

Wall Mount

**APPLICATION EXAMPLES:**

- Assembly workstation process indicator.
- Office and warehouse employee status indicator light.
- Cashier and bank teller availability light.
- Any type of manually operated assembly shop.

**NOTE:** See page 23 for WSL dimensions.

**HSST**

**Manual Indicating Light**

**HSST-312-RYG**

Continuous Light

**HSST-312-RYG**

Continuous Light

**Continuous Light**

**Continuous and Flashing Light**

with Audible Alarms
The XP - 24 –
Large, durable strobe

**Large Strobe**

- **Rated Voltage:** 24V DC.
- **Colors available:** red, yellow and blue.
- **Large design increases visibility** over standard strobe products.
- **Xenon discharge tube** provides superior visibility at great distances and is not affected by vibration.
- **Lenses are made of AS resin** with superior weather resistance and light translucence.
- **Main body is made of ABS resin** with superior resistance to impact and heat.

**Xenon Type Light**

<table>
<thead>
<tr>
<th>ø162mm</th>
<th>Round</th>
<th>Xenon</th>
<th>Pre-Assembled</th>
<th>Pre-Wired</th>
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</thead>
<tbody>
<tr>
<td>Ø162mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions (mm)**

- **WIRE LENGTH:** 300

**Wiring Diagram**

---

The KX Series, with Xenon discharge tube, lamp life is not affected by vibration. Superior visibility.

**KX Series Signal Light—**

- **Colors:** red, yellow, green, blue, and clear.
- **Xenon lamp provides intense flash** (night-time visibility 1000m or more).
- ***Meets IP-23 (IP-55 with optional rubber gasket SZ-200).**
- **Adjustable flash rate:** 30–90 flashes per minute.
- **12V and 220V versions** only available by special order.

**Mini-Size Flashing**

<table>
<thead>
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<th>ø100mm</th>
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<th>IP-55*</th>
<th>IP-23*</th>
<th>Xenon</th>
<th>Pre-Assembled</th>
<th>Pre-Wired</th>
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<tbody>
<tr>
<td>Ø100mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions (mm)**

- **WIRE LENGTH:** 250

**WIRING DIAGRAM**

**NOTE:** See page 31 for wiring diagram.
Refer to the tables and wiring diagrams below, to determine wiring, wire colors and voltages available.

Diagram #1— Continuous Only

- MT, WM: 24V only, with only one polarity (阳性) on Yellow (NPN).
- LGE, LCE, LME Series: 24V model is DC only, with only one polarity: plus (+) on Yellow (NPN).
- MT Series: +48V model also available.
- LME-Q Series: Opposite polarity with minus (-) on Yellow (PNP) is available by special order only.
- ME, MES Series: 24VDC only, with only one polarity: plus (+) on Yellow (NPN).
- 12V model also available.

Diagram #2— Continuous and Flashing with Alarm(s)

- RH-A Series: Mini-Size—

  - Colors available: red, yellow, green, and blue.
  - IP-55 rated, and comes with rubber gasket SZ-200A.
  - RH-A has an integral alarm (hi-pitch tone 90dB at 1m) that sounds with light operation.
  - Integral rotating parabolic reflector makes the light visible from long distances.
  - Rotates 170 times per minute.
  - Optional mounting brackets available (SZ-30L, SZ-30T).

Diagram #3— Continuous or Continuous and Flashing with Alarm(s)


  - Colors available: red, yellow, green, and blue.
  - WH-A & WK-A Series: 24V only.
  - Colorful wall-mounted rotating beacons in 2 dome styles.
  - Optional mounting brackets available (SZ-30L, SZ-30T).
**PEW/PES LED Dome Indicator—**

The PEW/PES dome shape provides increased visibility and the LEDs provide years of maintenance-free operation.

- **Super Mini Size**
  - PEW: Continuous and Flashing
  - PEW/B: with Audible Alarm

- **Dimensions (mm)**
  - PEW: ø82mm
  - PEW/B: ø162mm

**KP Series Large Size—**

The KP Series, large size warning light, is ideal for extreme temperatures or chemically exposed areas. All plastic and rust free.

- **Dimensions (mm)**
  - KP: ø162mm

**Signal Tower Dimensions**

Refer to the diagrams below to determine Signal Tower dimensions (in mm).
Rotating Warning Lights

Beacons & Cubes

<table>
<thead>
<tr>
<th>Rotating Warning Lights</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODELS</td>
</tr>
<tr>
<td>RU</td>
</tr>
<tr>
<td>PS</td>
</tr>
<tr>
<td>PEW/PES</td>
</tr>
<tr>
<td>KP</td>
</tr>
<tr>
<td>RH-A/RHB-A</td>
</tr>
<tr>
<td>WH-A/WHB-A</td>
</tr>
<tr>
<td>PK-A/WKB-A</td>
</tr>
<tr>
<td>SKH/EA</td>
</tr>
<tr>
<td>SKH-A/SKH-B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cube Tower</th>
<th>PAGE</th>
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<tbody>
<tr>
<td>KUS</td>
<td>29</td>
</tr>
<tr>
<td>KJ/KJSS</td>
<td>30</td>
</tr>
<tr>
<td>KJ/KJJB</td>
<td>30</td>
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</table>

<table>
<thead>
<tr>
<th>Wiring Diagrams</th>
<th>PAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotating Beacon</td>
<td>31</td>
</tr>
</tbody>
</table>

---

Warning Lights

RU Series Mini-Size Beacon—
The RU Series, mini-size, revolving warning lights. A bright idea for control signals and productivity.

### RU Mini-Size

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltages</th>
<th>Current</th>
<th>Lamp</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>RU</td>
<td>12V DC</td>
<td>0.6 A</td>
<td>10 W</td>
<td>0.06 kg</td>
</tr>
<tr>
<td>RU</td>
<td>24V DC</td>
<td>0.3 A</td>
<td>10 W</td>
<td>0.04 kg</td>
</tr>
</tbody>
</table>

**Dimensions (mm)**
- ø82mm Round

**NOTE:** See page 31 for wiring diagram.

- Colors available: red, yellow, green, and blue.
- Uses incandescent automobile bulb for longer life.
- Lenses: Made of shock and heat resistant polycarbonate resin.
- Integral rotating parabolic reflector makes light visible from a distance.
- RUP includes 300mm steel pole and bracket (SZ-013), nuts & washers.
- Rotates 120 times a minute.
- 12 volt version is only available by special order.

PS Series Mini-Size Beacon—
The PS/PSF Series, attractively designed mini-size revolving warning lights.

### PS Mini-Size

<table>
<thead>
<tr>
<th>Model</th>
<th>Voltages</th>
<th>Current</th>
<th>Lamp</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS</td>
<td>12V AC</td>
<td>0.5 A</td>
<td>1.4 W</td>
<td>0.06 kg</td>
</tr>
<tr>
<td>PS</td>
<td>24V AC</td>
<td>0.3 A</td>
<td>1.4 W</td>
<td>0.04 kg</td>
</tr>
</tbody>
</table>

**Dimensions (mm)**
- ø82mm Round

**NOTE:** See page 31 for wiring diagram.

- Colors available: red, yellow, green, and blue.
- Rubber gasket available for wash-down application.
- Lenses are made of heat and shock resistant polycarbonate resin.
- 12 volt version is only available by special order.

Optional mounting brackets available (SZ-30L, SZ-30T).
RU Series Mini-Size Beacon—
The RU Series, mini-size, revolving warning lights. A bright idea for control signals and productivity.

- Colors available: red, yellow, green, and blue.
- Uses incandescent automobile bulb for longer life.
- Lenses: Made of shock and heat resistant polycarbonate resin.
- Integral rotating parabolic reflector makes light visible from a distance.
- RUP includes 300mm steel pole and bracket (SZ-013), nuts & washers.
- Rotates 120 times a minute.
- 12 volt version is only available by special order.

<table>
<thead>
<tr>
<th>ø82mm</th>
<th>Round</th>
<th>IP-55*</th>
<th>Pre-Assembled</th>
<th>Pre-Wired</th>
</tr>
</thead>
<tbody>
<tr>
<td>RU</td>
<td>12V</td>
<td>4.4K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RUP</td>
<td>24V</td>
<td>1.6K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RUP</td>
<td>120V</td>
<td>0.4K</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**RU** Rotating Beacon

**RUP** with Pole and Bracket

NOTE: See page 31 for wiring diagram.

PS Series Mini-Size Beacon—
The PS/PSF Series, attractively designed mini-size warning lights.

- Colors available: red, yellow, green, and blue.
- Rubber gasket available for wash-down application.
- PSF flashes 60 times a minute, using solid state circuitry.
- Lenses are made of heat and shock resistant polycarbonate resin.
- 12 volt version is only available by special order.
- Optional mounting brackets available (SZ-30L, SZ-30T).

<table>
<thead>
<tr>
<th>ø82mm</th>
<th>Round</th>
<th>IP-55*</th>
<th>Pre-Assembled</th>
<th>Pre-Wired</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS</td>
<td>12V</td>
<td>6.4K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSF</td>
<td>24V</td>
<td>2.6K</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PSF</td>
<td>120V</td>
<td>0.6K</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PS** Continuous Light

**PSF** Flasing Light

NOTE: See page 31 for wiring diagram.
PEW/PES LED Dome Indicator—

The PEW/PES dome shape provides increased visibility and the LEDs provide years of maintenance-free operation.

- **Colors available:** red, yellow, green, and blue.
- **IP Rating:** PEW meets IP-65, PES meets IP-23 (IP-55 w/gasket SZ-210).
- **Flashing function available** in three different flash rates:
  - 60 fpm, 120 fpm, 180 fpm.
- **Dome is visible** from top and sides.
- **PEW-B features** 85dB/m adjustable audible alarm with volume control.
- **Low power consumption.**
- **PES:** Optional mounting brackets available (SZ-30L, SZ-30T).

KP Series Large Size—

The KP Series, large size warning light, is ideal for extreme temperatures or chemically exposed areas. All plastic and rust free.

- **Colors available:** red, yellow, green, and blue.
- **Meets IP-23 rating.**
- **Anti-UV coated body** protects from fading, for long term use.
- **Stainless steel bolts and nuts** protect from rusting.
- **Motor operates at extreme low temperatures** of -22°F (-30°C).
- **Suitable for chemically exposed areas.**
- **Optional mounting bracket** SZ-008 available.
**RH-A/RHB-A Series Mini-Size**

The RH-A/RHB-A Series are mini-size, versatile, durable & compact revolving warning lights. Terminal block allows easy wiring.

- Colors available: red, yellow, green, and blue.
- IP-55 rated, and comes with rubber gasket SZ-200A.
- RHB-A has an integral alarm (hi-pitch tone 90dB at 1m) that sounds with light operation.
- Integral rotating parabolic reflector makes the light visible from long distances.
- Rotates 170 times per minute.
- Optional mounting brackets available (SZ-30L, SZ-30T).

**WH-A / WHB-A Series Wall Mount Beacons**

Colorful wall-mounted rotating beacons in 2 dome styles.

- Colors available: red, yellow, green, and blue.
- Unique beacon with side mount bracket is perfect for vertical, horizontal or inverted mounting positions.
- Electronic buzzer emits sounds intermittently as the light rotates.
- Main body is made of ABS resin and dome is made of shock and heat resistant polycarbonate resin.
- 12V versions are only available by special order.
Rotating Warning Lights

SKH-EA Series Mini-Size—
The SKH-EA Series are mini-size, low cost, rotating warning lights used for a variety of applications.

### SKH-EA Series Standard Size—
The SKH-A Series, economic rotating lights, come with one-piece lens and base.

#### SKH-A

**Rotating Beacon**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Voltage</th>
<th>Bulb Type</th>
<th>IP Rating</th>
<th>Pre-Assembled</th>
<th>Pre-Wired</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V</td>
<td>12V DC</td>
<td>1000W</td>
<td>IP-20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24V</td>
<td>24V DC</td>
<td>2000W</td>
<td>IP-20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100V</td>
<td>100V AC</td>
<td>1000W</td>
<td>IP-20</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220V</td>
<td>220V AC</td>
<td>1000W</td>
<td>IP-20</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions (mm)**

- Mounting hole: 50
- Nameplate: 100
- Nameplate 30
- Nameplate 15

**Features**

- Colored acrylic lenses available in red, yellow, green, and blue.
- IP Rating: IP-23.
- Integral rotating parabolic reflector makes the light visible from long distances.
- Uses automobile bulb for longer life.
- Contains a spare bulb inside the housing.
- 12V version is only available by special order.
- Optional mounting brackets available (SZ-30L, SZ-30T).

**NOTE:** See page 31 for wiring diagram.

#### SKHB-A

**Rotating Beacon**

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Voltage</th>
<th>Bulb Type</th>
<th>IP Rating</th>
<th>Pre-Assembled</th>
<th>Pre-Wired</th>
</tr>
</thead>
<tbody>
<tr>
<td>12V</td>
<td>12V DC</td>
<td>1000W</td>
<td>IP-23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24V</td>
<td>24V DC</td>
<td>2000W</td>
<td>IP-23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100V</td>
<td>100V AC</td>
<td>1000W</td>
<td>IP-23</td>
<td></td>
<td></td>
</tr>
<tr>
<td>220V</td>
<td>220V AC</td>
<td>1000W</td>
<td>IP-23</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Dimensions (mm)**

- Mounting hole: 50
- Nameplate: 100
- Nameplate 30
- Nameplate 15

**Features**

- Colored acrylic lenses available in red, yellow, green, and blue.
- IP Rating: IP-23.
- Integral rotating parabolic reflector makes the light visible from long distances.
- Uses automobile bulb for longer life.
- SKHB-A has an integral alarm (Hi-pitch tone 90dB/m) that sounds with light operation.
- 12V, 100V and 220V versions are only available by special order.
- Optional mounting brackets available (SZ-30L, SZ-30T).

**NOTE:** See page 31 for wiring diagram.

### Signal Towers

NEW

The XP-24—

Large, durable strobe

#### Large Strobe

**Dimensions (mm)**

- Diameter: 100mm
- Height: 100mm
- Weight: 1.0kg
- IP Rating: IP-23

**Features**

- Xenon discharge tube provides superior visibility at great distances and is not affected by vibration.
- Lenses are made of AS resin with superior weather resistance and light translucence.
- Main body is made of ABS resin with superior resistance to impact and heat.

**XP-24**

- Rated Voltage: 24V DC.
- Colors available: red, yellow and blue.
- Large design increases visibility over standard strobe products.

**KX Series Signal Light—**

The KX Series, with Xenon discharge tube, lamp life is not affected by vibration. Superior visibility.

**KX Series**

**Features**

- Colors: red, yellow, green, blue, and clear.
- Xenon lamp provides intense flash (night-time visibility 1000m or more).
- *Meets IP-23 (XP-55 with optional rubber gasket SZ-200).
- Adjustable flash rate: 30, 60, 90 flashes per minute.
- 12V and 220V versions only available by special order.
WSL Series and HSST
Work Station Lights—

LED Type Light

Application Examples:
✓ Assembly workstation process indicator.
✓ Office and warehouse employee status indicator light.
✓ Cashier and bank teller availability light.
✓ Any type of manually operated assembly shop.

WSL/WSLF colors available: red, yellow, green, blue, and clear. HSST standard colors: red, yellow, and green.

LED illuminating light offers maintenance-free operation.

AC power adapter makes set-up easy in any location. (UL Listed)

WSL/WSLF come with durable steel control box with rocker switches and 2 pole mounting options.

WSL: Optional pole up to 1,000mm (SL-1000) available.

WSLF version includes two separate alarms, and alarm can be added to one or all colors.

HSST comes as a complete kit which includes:
✓ 3 LED signal tower in red/yellow/green with 4 ft. cable.
✓ 120V AC power supply with 6 ft. cord length.
✓ 3 button switchbox with mounting screws.
✓ 2 position mounting bracket with 2 adjustment screws.
✓ 3 and 12 inch mounting poles.
✓ Extension cable available in 10 ft. segments (DT-HSST-10).

NOTE: See page 23 for WSL dimensions.
Rotating Cube Tower

**KJS/KJSB**

**Slim Size**

- **KJ S** Rotating Beacon
- **KJ SB** with Audible Alarm

- **ø82mm Square**
  - IP-23
  - Electronic Alarm: 1
  - Pre-Wired

**KJ/KJ B Series Standard Size**—

- Larger beacon uses mirrored parabolic reflector for increased visibility.
- **ø116mm Square**
- IP-23
- Electronic Alarm: 1
- Pre-Wired

- **90 dB/m**
- **ø116 mm**
- **KJ** Rotating Beacon
- **KJB** with Audible Alarm

- **Colors available: red, yellow, green, and blue.**
- **IP Rating: IP-23.**
- Integral rotating parabolic reflector makes the light visible from a distance. KJS/KJSB rotates 160 times/minute, KJ/KJB 130 times/minute.
- **Lenses can be arranged in any combination desired.**
- **Each light can be operated separately.**
- **KJSB and KJB have an integral alarm that sounds intermittently.**
- **KJS/KJSB: Optional mounting brackets available (SZ-30L, SZ-30T) & SZ-007.**

**WM Series Wall Mounted Indicator**—

- The WM Series solves your space problems! Designed for easy mounting to save you both time and money.

- **WM-T** Continuous Light
- **WM-A** Continuous Light with Audible Alarms
- **WM-AFB** Continuous and Flashing Light with Audible Alarms

- **80mm Profile**
- **Colors available: red, yellow, green, blue, and clear.**
- **IP Rating: IP-65 (FB versions, upright only).**
- Can be mounted vertically or horizontally to either front panel or ceilings.
- **Alarms: WM-AFB type includes two selectable, single-tone intermittent alarms with volume 80dB (at 1m), while WM-TFB type has 1 alarm with an alternating 2-tone.**
- **FB types: approx. 60 flashes per minute.**
- **WME-A types: Free-voltage style available, 90 to 250V AC.**
- **NPN or PNP open collector compatible (24V DC only).**
- 1 stack versions available by special order for WME-A/AFB.

**LED Type**

- **WME-A** Continuous Light
- **WME-AFB** Continuous and Flashing Light with Audible Alarms
- **WM-T** Continuous Light
- **WM-TFB** Continuous and Flashing Light with Audible Alarm

**NOTE:** See page 22 & 23 for wiring and dimensions.
**BEACON/CUBE WIRING DIAGRAMS**

Refer to the wiring diagrams below to determine wiring and wire colors.

### Signal Towers

**WE Series** Wall mounted Indicator—The WE Series are Ultra-Slim Signal Lights that offer seamless integration with equipment.

#### WE-T
- **Continuous Light**

#### WE-TFB
- **Continuous and Flashing Light with Audible Alarms**

#### WEP-T
- **Continuous Light**

#### WEP-TFB
- **Continuous and Flashing Light with Audible Alarms**

---

### WE Series Wall Mount

**LED Type Light**

WE Chrome Cover

WEP Cream Color Cover

Available with DeviceNet or As-i

#### Conventional Design
- Model WE/WEP

#### IP-65 construction is safe for wash-down environments.

#### 37.5mm Profile
- Colors available: red, yellow, green, blue, and clear.
- FB type: Two selectable single-tone, intermittent alarms with volume 90dB (at 1m).
- Mounting: Vertical or Horizontal positions.
- NPN or PNP open collector compatible.
- See page 8 for DeviceNet™ and As-i versions.

---

### WE-TB
- **Continuous Light**

### WE-TFB
- **Continuous and Flashing Light with Audible Alarms**

---

### RH-A
- **37.5mm Profile**
- IP-65 construction is safe for wash-down environments.

### KP
- **37.5mm Profile**
- IP-65 construction is safe for wash-down environments.

### SKH-A
- **37.5mm Profile**
- IP-65 construction is safe for wash-down environments.
### Audible Alarms

**Voice Synthesizers**
- Melody • Chime • Alarm Sound

### Signal Towers

#### LGE Series Large Indicating Light—
The LGE Series is suitable for larger machines. Increased visibility at great distances with a modular design.

#### Light Modules

<table>
<thead>
<tr>
<th>LED Type</th>
<th>Color</th>
<th>Voltage</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGEBC-R</td>
<td>Red</td>
<td>120V AC</td>
<td>2W</td>
</tr>
<tr>
<td>LGEBC-Y</td>
<td>Yellow</td>
<td>24V AC</td>
<td></td>
</tr>
<tr>
<td>LGEBC-G</td>
<td>Green</td>
<td>24V AC</td>
<td></td>
</tr>
<tr>
<td>LGEBC-C</td>
<td>Clear</td>
<td>24V AC</td>
<td></td>
</tr>
</tbody>
</table>

#### Power Units

- **LGEBC** Continuous Light
- **LGEBC-FB** Continuous and Flashing Light with Audible Alarm

#### Shaft Assembly

**LGSHAFT**
- Assembly Required

### How to Order

(Example)
1. Power Unit: LGEBC-120FB  x 1 pc
2. Light Module: LGEBC-R  x 1 pc
   - LGEBC-Y  x 1 pc
   - LGEBC-G  x 1 pc
3. Shaft Assembly: LGSHAFT-3  x 1 pc

**Note:** LGEBC contains a transformer that steps down the input voltage to 24V DC.

### Optional Mounting Brackets

- **SZ-30L**
- **SZ-30T**

Optimal custom poles up to 1000mm available. (ST-1000mm)
### LU7 Series

**Modular System Indicating Light**

Is perfect for OEMs that offer different multi-stack versions in their machine design.

**How to Order:**

<table>
<thead>
<tr>
<th>Base Module (including cap)</th>
<th>Model</th>
<th>Rated Voltage</th>
<th>Alarm / Flash</th>
</tr>
</thead>
<tbody>
<tr>
<td>LU7-02</td>
<td>24V DC</td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>LU7-02FB</td>
<td>24V DC</td>
<td>2 Alarms / Flash</td>
<td>N/A</td>
</tr>
<tr>
<td>LU7-M2</td>
<td>90-250V AC</td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>LU7-M2FB</td>
<td>90-250V AC</td>
<td>2 Alarms / Flash</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**LED Module**

- LU7-E-R: Red
- LU7-E-Y: Yellow
- LU7-E-G: Green
- LU7-E-B: Blue
- LU7-E-C: Clear

**Terminal Wiring Chart**

- No tools required to assemble.
- Easy wiring with spring loaded terminal block.
- NPN or PNP open collector compatible (24V type), and NPN open collector compatible (90-250V type).
- Available in 24V DC and Free-Voltage, 90 to 250V AC.
- FB type: Two selectable single-tone alarms, one intermittent and one continuous, with adjustable volume to 90dB (at 1m), and light has 60 flashes per minute.
- Pole mount options available: SZ-50L, SZ-50T (see pages 46-47).

**Terminal Diagram**

- Continuous contact closure replays selected channel repeatedly.
- Mounts anywhere with 3 position bracket.
- Moisture proof structure, suitable for moist environments.

**BT Series Audible Alarm**

The BT Series, with voice, melody, chime and alarm capability, has variable audible control. Includes a compact, but loud speaker.

**BT-KA**

- 8 distinctive alert sounds.

**BT-L**

- 6 melodies and 2 chime sounds.
- Choose from F, Q, or S type combinations.

**BT-M**

- 8 different popular melodies.
- Choose from G, H, or P type combinations.

**BT-V**

- A programmable voice unit that can replay up to 4 messages with 64 sec. of total program time.
- Produces a clear 64Kbit/sec. sound
- Select voice messages, alarms, chimes and melodies from our command library.
- Custom message programming is also available.

**Dimensions (mm)**

- BT has a 3 Position Mounting Bracket:
- NPN open collector transistor compatible.
- One-shot contact closure (>100mS) replays selected channel one time only (BT-V).
- Measures 108mm square.
Audible Alarms

**PATLITE**

**PV Series** — Programmable Voice/Message Annunciator

**Multi-Message Controller**

PV Voice Synthesizer

- Up to 32 channel programming with a choice of 64 seconds or 128 seconds of total program time.
- High quality 64Kbit/sec. speech chip creates clear playback.
- 1-bit (1 to 16 channel only with a single contact closure) or 6-bit (1 to 32). Binary input system.
- Maximum output level of 110dB/m with an adjustable volume.
- DIN rail or standalone, vertical or horizontal mounting available.
- Auxiliary output connection allows external amplifier.
- NPN or PNP open collector transistor compatible.

**Command Library:** The Command Library is a compilation of over 3000 pre-recorded industry words and numbers (female voice), and sounds. Each command from the library is in alphabetical order and provides the length of words in seconds to assist in creating the message.

**Library Programming:** Choose up to 8 words from the Command Library to create your message for each channel. A maximum of 32 channels can be programmed.

**Custom Programming:** Give us the messages that apply to your particular application, up to 64 seconds or 128 seconds of total program time and up to 32 individual channels.

**Signal Towers**

**LME Series**

**LME Series Indicating Light**— The LME Series provides the latest in LED technology.

**LME Series**

- **LME-T**
  - Continuous Light
- **LME-TFB**
  - Continuous and Flashing Light with Audible Alarms
- **LME-TW**
  - Continuous Light
- **LME-TFBW**
  - Continuous and Flashing Light with Audible Alarms

**Dimensions (mm)**

<table>
<thead>
<tr>
<th>Style</th>
<th>Model</th>
<th>Voltage</th>
<th>Wattage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Light</td>
<td>LME-147/17 - FB</td>
<td>28V AC/DC</td>
<td>5W</td>
</tr>
<tr>
<td>2-Light</td>
<td>LME-247/17 - FB</td>
<td>28V AC/DC</td>
<td>5W</td>
</tr>
<tr>
<td>3-Light</td>
<td>LME-347/17 - FB</td>
<td>28V AC/DC</td>
<td>5W</td>
</tr>
<tr>
<td>4-Light</td>
<td>LME-447/17 - FB</td>
<td>28V AC/DC</td>
<td>5W</td>
</tr>
</tbody>
</table>

**NOTE:** See pages 22 & 23 for wiring and dimensions.

**LED Type Light**

- Ø60mm
- Colors available: red, yellow, green, blue, and clear.
- IP Rating: IP-65 (FB Type: IP-54).
- LED modules are interchangeable and stackable after purchase, up to 5 LED modules (New shaft purchase is required).
- FB type: Two selectable single-tone, intermittent alarms with adjustable volume to 90dB (at 1m).
- Pole mount version comes with 300mm aluminum pole and plastic topmount bracket.
- NPN or PNP open collector (24V type), and NPN open collector (120V type).

**The LME-Q Series** — Four colors in a single stack

- **LME-Q Series**
  - Continuous Light
- **LME-TFB-Q**
  - Continuous and Flashing Light with Audible Alarms
- **LME-TW-Q**
  - Continuous Light
- **LME-TFBW-Q**
  - Continuous and Flashing Light with Audible Alarms

**NOTE:** See pages 22 & 23 for wiring and dimensions.

**LED Type Light**

- Ø60mm
- Colors available: red, yellow, green, blue, and clear.
- IP Rating: IP-65 (FB Type: IP-54).
- LED modules are interchangeable and stackable after purchase, up to 5 LED modules (New shaft purchase is required).
- FB type: Two selectable single-tone, intermittent alarms with adjustable volume to 90dB (at 1m).
- Pole mount version comes with 300mm aluminum pole and plastic topmount bracket.
- NPN or PNP open collector (24V type), and NPN open collector (120V type).

**Continuous and Flashing Light with Audible Alarms**

- LED type: Two selectable single-tone, intermittent alarms with adjustable volume to 90dB (at 1m).
- Pole mount version comes with 300mm aluminum pole and plastic topmount bracket.
- NPN or PNP open collector (24V type), and NPN open collector (120V type).
The PV Series, programmable multi-message controller, is a unique audible controller that allows the flexibility of programming voice messages or any type of sounds to indicate machine status.

**Mountings**

The PV can be mounted vertically, horizontally or simply mount to DIN rail.

**Wiring Diagrams**

**Example of library programming by Factory Software**

**Optional Parts**

- Speaker (5W8 Ω): SPW-5E
- Speaker (3W16 Ω): SPB-3D

---

**SE-T Series Indicating Light—The SE-T Series LED Signal Tower is brighter than ever!**

**Pole Mount**

- **SE-T** Continuous Light
- **SEFB-T** Continuous and Flashing Light with Audible Alarms

**Wiring Diagrams**

**Optional Mounting Brackets** (See Pg. 46 & 47):

- S2-010
- S2-016
- S2-017
- S2-964

**NOTE:** See pages 22 & 23 for wiring and dimensions.

---

**SE-T Series LED Signal Tower**

- **ø57mm**
  - Colors available: red, yellow, green, blue, and clear (Clear is at a premium).
  - IP Rating: IP-54.
  - LED modules are interchangeable and stackable after purchase (up to 5 LED modules).
  - FB type: Two selectable single-tone, intermittent alarms after purchase (up to 5 LED modules).
  - The units are shipped completely pre-wired and pre-assembled.
  - Includes 300mm steel pole and mounting bracket (SZ-013) with nuts and washers.

---

**SEFB-T Series Indicating Light**

- **Continuous and Flashing Light**
- **Audible Alarms**

**Wiring Diagrams**

**Example of library programming by Factory Software**

**Optional Mounting Brackets** (See Pg. 46 & 47):

- S2-010
- S2-016
- S2-017
- S2-964

**NOTE:** See pages 22 & 23 for wiring and dimensions.
**Audible Alarms**

**PATLITE**

**EVB**

**EVB-D Series**

Self-Recordable Annunciator—

The EVB Series is a box design with easy self-recording. Record up to 4 messages with 60 seconds total recording time.

- Program in the field with optional microphone (MC-EV).
- High quality voice synthesizer replays up to 4 messages with 60 seconds of total program time.
- Maximum output level of 90dB/m with an adjustable volume.
- NPN open collector transistor compatible.
- Two mounting options: wall mount or panel mount.
- Auxiliary output allows connection to external amplifier.
- Easy recording and playback.
- NPN open collector permits direct connection to a PLC.
- Using BUSY terminals, a revolving light or display can be operated during voice output.

**Dimensions (mm)**

- 133mm square

**Wiring Diagram**

**Mounting Fitch**

**Self-Recordable Voice Annunciator**

**EVB-04** Voice Synthesizer

**REC/PLAY Switch**

**Microphone Input**

**Hexagon Bolt**

**Indicating Lamp**

**Operating Lamp**

**Microphone (Optional)**

**Electronic Alarms:**

- 2 Open-Collector Pre-Assembled
- 2 Open-Collector Pre-Wired

**LED Indicating Light—**

The LE Series can mount up to five colors, and has an improved alarm and LED system.

**LE-P** Continuous Light

**LE-FBP** Continuous and Flashing Light with Audible Alarms

**LEL-W** Continuous Light

**LEL-FBW** Continuous and Flashing Light with Audible Alarms

**Dimensions (mm)**

- ø50mm

**Colors available: red, yellow, green, blue, and clear.


- LED modules are interchangeable and stackable after purchase (up to 5 LED modules).
- FB type: Two selectable single-tone, intermittent alarms with adjustable volume to 85dB (at 1m).
- LE-P: Includes 300mm steel pole with nuts and washers (optional brackets available).
- 12V version is only available by special order.
- NPN or PNP open collector compatible for 24V, NPN for 120V.
- See page 8 for DeviceNet™ or As-i versions.

**NOTE:** See pages 22 & 23 for wiring and dimensions.
Signal Towers

**LES Series Indicating Light**—
The LES Series is a quality, cost saving, LED signal tower with prices below incandescent.

<table>
<thead>
<tr>
<th>Style</th>
<th>Model</th>
<th>Rated Voltage</th>
<th>Power Consumption</th>
<th>Volume</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pole Mount</td>
<td>LES-A</td>
<td>100V AC/DC</td>
<td>12W</td>
<td>500 (L x W x H)</td>
<td>1.2kg</td>
</tr>
<tr>
<td>Direct Mount</td>
<td>LES-AW</td>
<td>100V AC/DC</td>
<td>24W</td>
<td>820 (L x W x H)</td>
<td>1.4kg</td>
</tr>
</tbody>
</table>

**Note:**
- LED modules cannot be added after purchase.
- Bottom LED module cannot be removed or interchanged.

(Optional Mounting Brackets)
- SZ-010
- SZ-011
- SZ-016
- SZ-017
- SZ-021
- SZ-903

ø50mm
- Colors available: red, yellow, green, blue, and clear.
- *Meets IP-54 (Sealant required for mounting pole and bracket).
- Features high intensity LEDs, offering low costs, low power consumption and maintenance free.
- Lenses are made of acrylic resin.
- The system is CE compliant.
- NPN or PNP open collector compatible.
- Units are shipped completely pre-wired and pre-assembled.
- Pole mount type includes 300mm steel pole and mounting bracket (SZ-012) with nuts and washers.

Audible Alarms

**EVW Series Recording and Playback**—
The EVW Series has easy recording with attached microphone. Record up to 4 messages with 60 seconds total recording time.

- Easy recording and playback with optional microphone (MC-EV).
- Meets IP-33 for washdown requirements.
- Anti-corrosive stainless steel bracket.
- Clear sound with original wide horn style.
- High quality voice synthesizer replays up to 4 messages with 60 seconds of total program time.
- High volume, maximum 105dB at 1m, adjustable.
- NPN open collector permits direct connection to a PLC.
- Auxiliary output allows connection to external amplifier.

Microphone (Optional)
AUDIBLE ALARMS

**PATLITE**

**PVW Series**

The PVW Series is perfect for use in noisy environments. They can replay messages up to 64 seconds long.

- **PVW-04 / 15** Voice Synthesizer
  - Meets IP-53.
  - Anti-corrosive stainless steel bracket.
  - Clear sound with original wide horn style.
  - High volume, maximum 105dB at 1m.
  - NPN open collector permits direct connection to a PLC.
  - Internal adjustable volume control to match a range of environments.
  - PVW-04: Up to 4 messages for a total of 64 seconds can be set.
  - PVW-15: Up to 15 messages for a total of 64 seconds can be set.
  - Clear sound from voice synthesizers is given by the high bit rate (ADPCM 64 bit/s).
  - Available with optional extension amplifier (PVA-30=30W) connected to AUX OUT.
  - Replaying message may be stopped by “stop” input.
  - The playback start signal is input from a switch on an external device. If the signal is received once, the message will be played once; and if the signal is continued, the message will be repeated.

48V and 220V versions only available by special order.

**Dimensions (mm)**

**Wiring Diagram**

**PVW Series Playback Only—**

**LCE Series**

The LCE Series offers the latest in LED technology. Versatile and energy efficient.

- **LCE-(-T)** Continuous Light
- **LCE-(T)FB** Continuous and Flashing Light with Audible Alarms
- **Direct Mount**
  - **LCE-(T)W** Continuous Light
  - **LCE-(T)FBW** Continuous and Flashing Light with Audible Alarms

- Colors available: red, yellow, green, blue, and clear.
- Super high intensity LEDs and low operating costs, low power consumption & maintenance free.
- FB types: Two selectable single-tone, intermittent alarms with adjustable volume to 85dB (at 1m).
- Pole mount types include 300mm steel pole and mounting bracket (SZ-012) with nuts and washers.
- NPN or PNP open collector compatible (24V type), and NPN open collector compatible (90-250V type).
- Free-voltage style available, 90 to 250V AC.
- LED modules are interchangeable and stackable after purchase (up to 5 LED modules).
**Signal Towers**

**PATLITE**

**ME Series**

*Super Slim Indicating Light—*

The ME Series are direct mounted, super slim lights with rust free aluminum bodies.

<table>
<thead>
<tr>
<th>Type Light</th>
<th>Style</th>
<th>ME-T</th>
<th>200mm Body Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>MES-T</td>
<td>40mm Body Size</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Super Slim Size**

12V DC version available by special order.

<table>
<thead>
<tr>
<th>STYLE</th>
<th>MODEL</th>
<th>P.T.O. VOLTAGE</th>
<th>WATTAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ME / ME-T</td>
<td>3V DC</td>
<td>0.6W</td>
</tr>
<tr>
<td>2</td>
<td>ME / ME-00T</td>
<td>24V DC</td>
<td>1.2W</td>
</tr>
<tr>
<td>3</td>
<td>ME / ME-00T</td>
<td>24V DC</td>
<td>1.7W</td>
</tr>
<tr>
<td>4</td>
<td>ME / ME-00T</td>
<td>24V DC</td>
<td>2.7W</td>
</tr>
</tbody>
</table>

- Colors available: red, yellow, green, blue, and clear.
- Lenses are clear (no color) until power supplied.
- Rust & corrosion proof anodized aluminum tower body.
- Can be mounted on a flat surface with a single hole.
- IP-54 rating, and NPN open collector compatible.
- PNP open collector version is available by special order (minimum 5 pieces per order).
- Standard body size: 200mm ME. Shorter body size: 40mm MES.
- Includes lock nut and chase nipple.
- LED modules are interchangeable and stackable after purchase (up to 5 LED modules).

**Audible Alarms**

**PATLITE**

**EW/EWS Series**

*Horn Style Alarm—*

The EW/EWS Series with large volume, is perfect for use in noisy factories.

- Meets IP-65.
- NPN open collector permits direct connection to a PLC.
- EW-K & EWS-K: has 8 distinctive alert sounds.
- EW-L & EWS-L: has 6 melodies and 2 chime sounds.
- EW-M & EWS-M: has 8 different world familiar melodies.
- Integral volume control.
- Universal mounting bracket permits easy installation in any location.
- LSI digital synthesizer assures continuous high quality sound reproduction for the life of the system.
- EWS: Select one sound by dip switch from 8 pre-installed sounds.

**NOTE:** See pages 22 & 23 for wiring and dimensions.

**Optional Mounting Brackets**

*Requires SZ-903 Adapter*
Audible Alarms

EB-K, EB-L
Emb, ESB & ETB Series
Box Style Alarms, Wall or Panel Mounts—The EB, EMB, ESB and ETB Series have a simple box design that fits with various types of machinery.

- LSI digital synthesizer assures continuous high quality sound reproduction for the life of the system.
- Two mounting options: wall or panel mount.
- Units are operated by a continuous contact closure and replay selected channel repeatedly.
- EB-K has 8 distinctive alert sounds.
- EB-L has 6 melodies and 2 chimes.
- EMB has 8 different popular melodies.
- ESB has 1 output, alarm.
- ETB-B has 4 different alarm sounds.

Dimensions (mm)

Specifications

Voltage 24V DC (AC Adapter included)
Power Consumption (Max.) Approx. 6.5W
Input Interface RS-232C (or USB with converter)
Weight PHE-3FB: 580g AC Adapter: 160g

133mm square
- LSI digital synthesizer assures continuous high quality sound reproduction for the life of the system.
- Two mounting options: wall or panel mount.
- Units are operated by a continuous contact closure and replay selected channel repeatedly.
- EB-K has 8 distinctive alert sounds.
- EB-L has 6 melodies and 2 chimes.
- EMB has 8 different popular melodies.
- ESB has 1 output, alarm.
- ETB-B has 4 different alarm sounds.

NOTE: See Page 45 for the Sound Type Selection Chart.
3 Signal Towers available with DeviceNet™ or As-i

If your control bus is a DeviceNet™ or As-i system, Patlite has three signal tower choices for you. This low cost industrial network solution is rapidly growing in popularity. DeviceNet™ or As-i can give you the connectivity to eliminate expensive wiring while providing device-level diagnostics and control. Our DeviceNet™ and As-i series will improve machine/operator communication and increase production. These high quality LED status indicators feature bright and long lasting LEDs, as well as a modern, aesthetic design. All models have an audible alarm option. LE and LHE have pole mount capability.

**DeviceNet™ Type:**
- **Style**
  - LE
  - WEP
  - LHE
- **Mounting**
  - Direct
  - Pole
- **Model**
  - LE-D3
  - LE-E3
  - WEP-D3
  - WEP-E3
  - LHE-D3
  - LHE-E3
- **LEDs per light**
  - Direct: 3
  - Pole: 2
- **Power Supply**
  - LE: 12VDC
  - WEP: 24VDC
  - LHE: 12VDC
- **IP Rating**
  - LE: IP-34
  - WEP: IP-65
  - LHE: IP-65

**As-i Type:**
- **Style**
  - LE
  - WEP
  - LHE
- **Mounting**
  - Direct
  - Pole
- **Model**
  - LE-D3
  - LE-E3
  - WEP-D3
  - WEP-E3
  - LHE-D3
  - LHE-E3
- **LEDs per light**
  - Direct: 1
  - Pole: 1
- **Power Supply**
  - LE: 12VDC
  - WEP: 24VDC
  - LHE: 12VDC
- **IP Rating**
  - LE: IP-23
  - WEP: IP-34
  - LHE: IP-23

**Wiring Diagrams**

3 Signal Towers

**Dimensions (mm)**
- **LE-D3 / LE-E3**
  - Diameter: 50mm
  - Profile: 37.5mm
- **WEP-D3 / WEP-E3**
  - Diameter: 70mm
- **LHE-D3 / LHE-E3**
  - Diameter: 70mm

**LED Type Lights**
- "Versatile" LE-D3 / LE-E3
- "Wide Body" LE-D3 / LHE-E3
- "Wall Mount" WEP-D3 / WEP-E3

**Audible Alarms**

**BM Compact Panel Mount Alarm—**
The BM Series, extremely small design complete with two buzzer sounds. Ideal for use with control panels or production equipment.

- **IP Rating:** IP-34
- **Volume:** 90 dB/m

**BA/BC Compact Panel Mount Alarm—**
The BA/BC Series, dust and waterproof design (IP-54) allows trouble-free use in harsh environments.

- **IP Rating:** IP-65
- **Volume:** 85 dB/m

**Dimensions (mm)**
- **50mm square (ø30mm)**
  - Ultra compact size.
  - Provided with 2 selectable, distinctive alert sounds.
  - High volume in a compact unit (volume is not adjustable).
  - NPN or PNP open collector transistor compatible (24 V type only).
  - Continuous contact closure replays selected channel repeatedly.
  - Channel 1 has priority.

**Dimensions (mm)**
- **80mm square**
  - BA has 4 distinctive alert alarms, BC has 2 melodies and 2 chimes.
  - Integral volume control.
  - NPN open collector transistor compatible, PNP compatible by special order only.
  - Utilizes a mylar cone speaker for dust resistance.

**NOTE:** See Page 45 for the Sound Type Selection Chart.
The RT Series is a large horn and rotating light combination for increased plant floor coverage.

**RT Series Alarm with Rotating Light**

- **Alarm with Rotating Light**
  - RT-KA: Comes with 6 alarm sounds
  - RT-L: Chime; Comes with 6 melodies and 2 chimes
  - RT-VS: Voice Synthesizer; Can replay 4 messages with 54 sec. of total program time

**Specifications**

- **Color**
  - Colors available: red, yellow, green, and blue.

- **IP Rating**
  - RT: IP-23

- **Volume Control**
  - Adjustable volume control: Max. 105dB/m* (*Max. 100dB/m for RT-VS)

- **Lenses**
  - Lenses are made of acrylic resin.

- **Power Consumption**
  - NPN open collector transistor compatible.

- **Programming**
  - RT-VS requires message programming from the command library (free) or custom messages (optional).

- **Playback**
  - Clear, distortion-free playback.

- **Outputs**
  - Eight Outputs: RT-L & RT-K
  - Four Outputs: RT-VS

- **Mounting**
  - Optional mounting bracket: SZ-008

- **Version**
  - 220V version is available by special order only.
  - IP-54 rated version by special order only.

---

**CLE Series Machine Vision Light**

- **Type Light**
  - Designed for the machine tool, process, inspection, and image processing industries.

- **Brightness**
  - Superior brightness with high intensity LEDs.

- **Power Consumption**
  - Low power consumption, low noise, and low heat.

- **Body**
  - Anodized aluminum body that is rust, corrosion & oil-proof.

- **Lens**
  - Lens made of reinforced shock resistant glass for lasting lens transparency.

- **Certification**
  - Meets IP-65f.

---

**Dimensions (mm)**

**RT Series**

- **Dome**: 162mm
- **Chime**: 71mm

**CLE Series**

- **CLE-24**: ø71mm, ø162mm Dome
- **CLE-24N**: ø71mm

---

**NOTE:** See Page 45 for the Sound Type Selection Chart.
Signal Towers

Signal Lights • Wall Mounts

Audible Alarms

LGEH Series Indicating Light w/Horn — The LGEH Series is a large horn and signal tower combination that supplies greater sound and visibility.

Horn/Signal Tower

<table>
<thead>
<tr>
<th>LGEH-FKA</th>
<th>Alarm Comes with 8 alarm sounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGEH-FL</td>
<td>Chime: Comes with 6 melodies and 2 chimes. Choose from Sound Types: F, G, S</td>
</tr>
<tr>
<td>LGEH-FM</td>
<td>Melody: Comes with 6 melodies. Choose from Sound Types: G, H, P</td>
</tr>
<tr>
<td>LGEH-FV</td>
<td>Voice Synthesizer. Can replay 4 messages with 64 sec. of total program time</td>
</tr>
</tbody>
</table>

Dimensions (mm)

Wiring Diagrams            Page
CLE                      7
DeviceNet™ / As-i        8
PHE                      9
ME                       10
LGE                      11
LES                      12
LE                       13
SE                       14
LME                      15
LMG                      15
LUG                      16
LGE                      17
WE                       18
WM                       19
HSST                     20
WSL                      20
XP                       21
XX                       21
Wiring Diagrams          22
Dimensions               23

NOTE: See Page 45 for the Sound Type Selection Chart.

Colors available: red, yellow, green, blue, clear.
Stacking: 1 to 4 lights.
LED light is effectively diffused to create a full and brilliant color with a triple reflection system.
Large diameter signal tower is visible from great distances (lens dimension is 100mm x 50mm).
Lenses are made of heat & shock resistant polycarbonate resin.
LSI digital voice synthesizer assures continuous high quality sound reproduction for the life of the system.
Maximum output level of 102dB/m with an adjustable volume.
Auxiliary output allows connection to an external amplifier.
220V version is only available by special order.

WIRE LENGTH:

NOTE: See Page 45 for the Sound Type Selection Chart.
Audible Alarms

PATLITE

KJT Series Alarm with Rotating Light—The KJT Series combines highly visible multi-stack rotating lights with sound. Gives doubly effective warning signals.

KJT TKA Alarm Eight

KJT TL Chime Phone

Choose from Sound Types: F, Q, S

Dimensions (mm) Wiring Diagram

ø116mm

Colors available: red, yellow, green, and blue.

IP Rating: IP-23.

Integral alarm control.

Each alarm and each light in the tower can be operated separately or together.

Lenses are made of acrylic resin.

KJT-KA has 8 distinctive alert sounds.

KJT-L has 6 melodies and 2 chime sounds.

Optional mounting bracket: SZ-008.

NOTE: See Page 45 for the Sound Type Selection Chart.

How to Order (Example)

See PATLITE’s Latest Products at www.patlite.com
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Sound List Selection Charts / Audible Products

PATLITE offers a variety of audible products with: ALARMS (such as KA or KD), MELODIES/CHIMES (such as LF or LQ) and MELODIES (such as MG or MH). For ordering, choose the Product and the Alarm type in the tables below. (Example: EMB H-Type)
Optional Parts

Mounting Poles & Brackets (mm)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>PRODUCT</th>
<th>PART No.</th>
<th>MODEL</th>
<th>PART No.</th>
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<tr>
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<td>LME-W</td>
<td>SZ-80L</td>
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<td>SZ-60T</td>
<td>LES-AW</td>
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<td>LU7</td>
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<td>SZ-40L</td>
<td>LHE-A</td>
<td>SZ-50L</td>
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<td>KUS</td>
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<tr>
<td>SL-1000MM</td>
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<td>ST-1000MM</td>
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Mounting Brackets (mm)

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<td>SZ-010 (22mm)</td>
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<td>SZ-011 (17mm)</td>
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<td>SZ-016 (22mm)</td>
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<td>SZ-017 (22mm)</td>
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<td>SZ-021 (17mm)</td>
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Rubber Gaskets (mm)

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<th>PRODUCT</th>
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<tr>
<td>SZ-200</td>
<td>KX-T, RHH-A, SKH-EA, PES, PSF, RU</td>
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<td>SZ-200A</td>
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<td>SZ-210</td>
<td>PES, PS, PSF, RU</td>
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<td>SZ-903</td>
<td>1/2&quot; NPT Adapter</td>
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<tr>
<td>SZ-904</td>
<td>3/4&quot; NPT Adapter</td>
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</table>

MODEL | PRODUCT
---|---
SZ-010, 016, 017 | LME, LME-L, RUP, SE-T, ST, STPB
SZ-011 | LCE, LE-P, LES-A
SZ-020 | LME
SZ-021 | LCE, LE-P, LES-A
SZ-903 | LCE, LE-P, LES-A, ME, MEL, MES, MT
SZ-904 | LME-L, RUP, SE-T, ST, STPB
### Mounting Brackets (mm)

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<th>MODEL</th>
<th>PRODUCT</th>
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<tr>
<td>SZ-012</td>
<td>LCE, LE-P, LES-A</td>
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<td>SZ-013</td>
<td>LME-L, ME, MEL, MES, MT, RUP, SE-T, ST, STPB</td>
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(Pole is not included)

### Replacement Bulbs

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<td>12V15W</td>
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<td>LMP-0093</td>
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<td>15</td>
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### LED-Lamps

<table>
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<tr>
<th>TYPE</th>
<th>COLOR</th>
<th>VOLTAGE</th>
<th>PART No.</th>
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<tr>
<td>ST/STPB CS</td>
<td>RED</td>
<td>24V</td>
<td>DE24E-R</td>
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<td>YELLOW</td>
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<td>DE24E-G</td>
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<td>CLEAR</td>
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</table>
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Specifications are subject to change without notice.