

# PATLITE

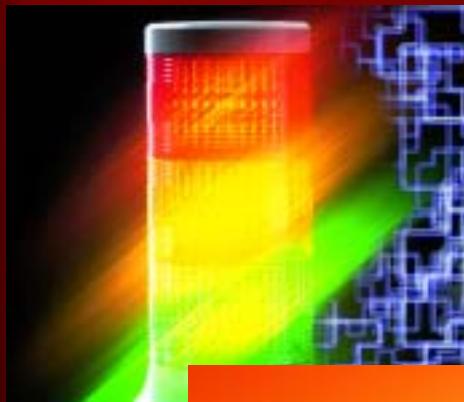
U.S.A.

*New Frontiers in Safety, Security and Comfort*

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



# PATLITE



## Total Information Technology

*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.*

# Product Capability Summary

## Explanation of Codes and Symbols Used in this Catalog

**IP** (Index of Ingress Protection,  
defined by CEI/IEC 529)

Code No.  
IP- 

("F" following Code No.: Protection against oil.)

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

Electronic Sound

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

AC Motor

Long-lasting brushless motor provides stable rotation.

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.**

Ø 40 Round

Indicates the size and shape of signal lights or revolving lights.

Alarm

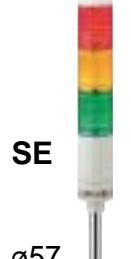
**Easy to hear but gentle on the ears.**

Water Proof

Provides a level of protection up to and including direct water jets.

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<b>LU7</b> Ø70	<b>LGE</b> Ø100	<b>WEP/WE</b> 37.5 Profile	<b>WM/WME-A</b> 80 Profile	<b>HSST</b> Ø50	<b>WSL</b> Ø50	<b>XP</b> Ø162	<b>KX</b> Ø100
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## Beacons/Cubes

							
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## Audible Alarms

							
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# Signal Towers

Signal Lights • Wall Mounts

## Signal Towers

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**PATLITE**

# CLE

**NEW**

## The CLE Series

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

**LED Type Light**



### Machine Vision Light

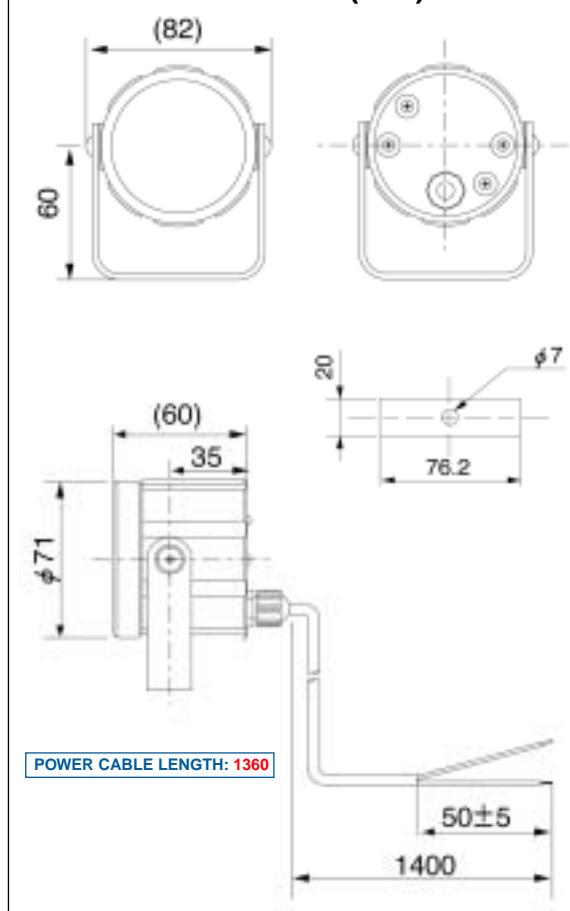
**CLE-24** Standard Light

**CLE-24N** Narrow Light

#### Specifications

MODEL	CLE-24	CLE-24N
Spot Size	Wide Spot	Narrow Spot
Rated Voltage	24V DC/Either Polarity	24V DC/Either Polarity
Power Consumption	3W	3W
Light Source	24 LEDs, White, High Luminosity	
Luminous Intensity @ Optical Center	20 Candela	130 Candela
Installation	Any Direction	Any Direction
Operating Temp. Range	-24°C to +80°C (No Condensation)	
Protection Rating	IP65F	IP65F
Vibration	19.6 m/sec <sup>2</sup> (2G)	19.6 m/sec <sup>2</sup> (2G)
Mass	0.3 kg	0.3 kg
Glass Surface	Frosted	Clear
Recommended Fuse	1A, 125V	1A, 125V

#### Dimensions (mm)



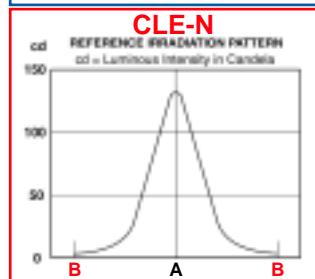
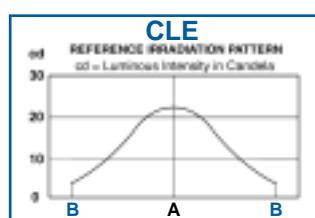
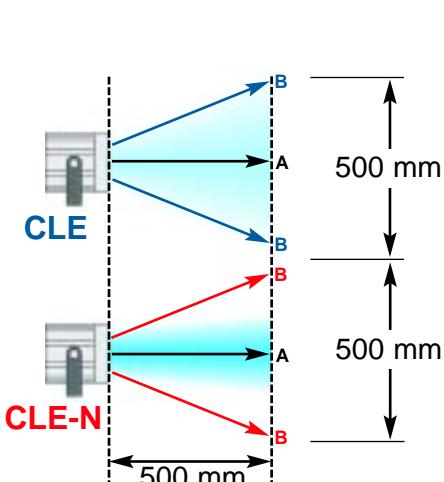
**CLE-24**



**CLE-24N**

**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.



# DeviceNet™

## 3 Signal Towers

LE-D3 / LE-E3	50mm Diameter
WEP-D3 / WEP-E3	37.5mm Profile
LHE-D3 / LHE-E3	70mm Diameter

### DeviceNet™ Type:

Style	Series	Mounting	W/O Alarm	W/Alarm
3 Lights	LE	Direct	LE-D3W	LE-D3BW
	LE	Pole	LE-D3P	LE-D3BP
	LHE	Direct	LHE-D3	LHE-D3B
	WEP	Wall	WEP-D3	WEP-D3B

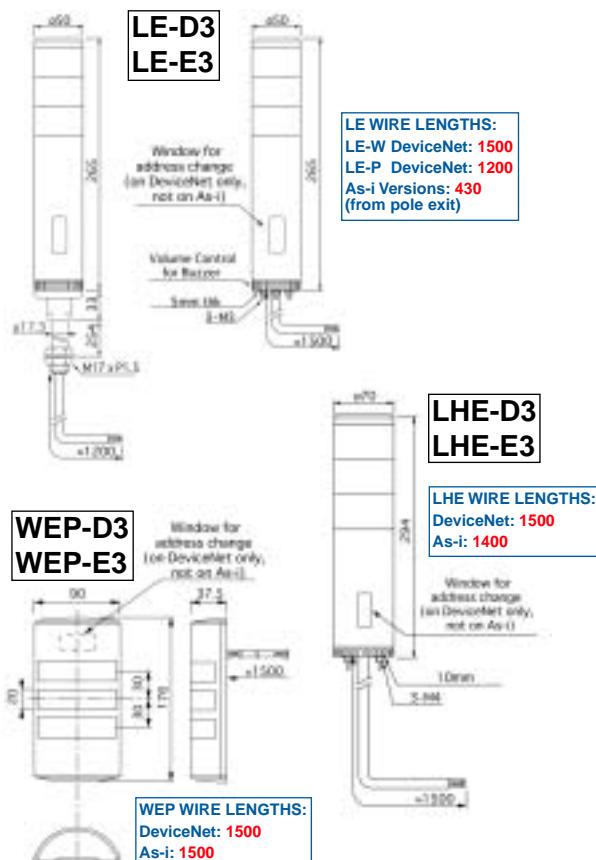
Other configurations available.

### As-i Type:

Style	Series	Mounting	W/O Alarm	W/Alarm	Power Supply
3 Lights	LE	Direct	LE-E3W	LE-E3BW	Auxiliary
	LE	Pole	LE-E3P	LE-E3BP	Auxiliary
	LHE	Direct	LHE-E3	LHE-E3B	Auxiliary
	WEP	Wall	WEP-E3	WEP-E3B	Auxiliary

Other configurations available.

### Dimensions (mm)



## LED Type Lights

## 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.

### "Versatile"

**LE-D3**  
**LE-E3**

### "Wall Mount"

**WEP-D3**  
**WEP-E3**

### "Wide Body"

**LHE-D3**  
**LHE-E3**



ø50mm



37.5mm  
profile



ø70mm

- Long lasting LEDs.
- 50mm diameter.
- LED modules are interchangeable and stackable after purchase.
- Optional buzzer.
- Colors: red, yellow, blue, green & clear.
- IP-23 rated.

- Mountable on wall or ceiling.
- Unique 37.5mm profile.
- Super bright LEDs.
- Optional buzzer.
- Colors: red, yellow, blue, green & clear.
- IP-23 rated.

- LEDs consume less power.
- 70mm diameter.
- Optional buzzer.
- LED modules are interchangeable and stackable after purchase.
- Colors: red, yellow, green, blue & clear.
- IP-23 rated.

# PHE

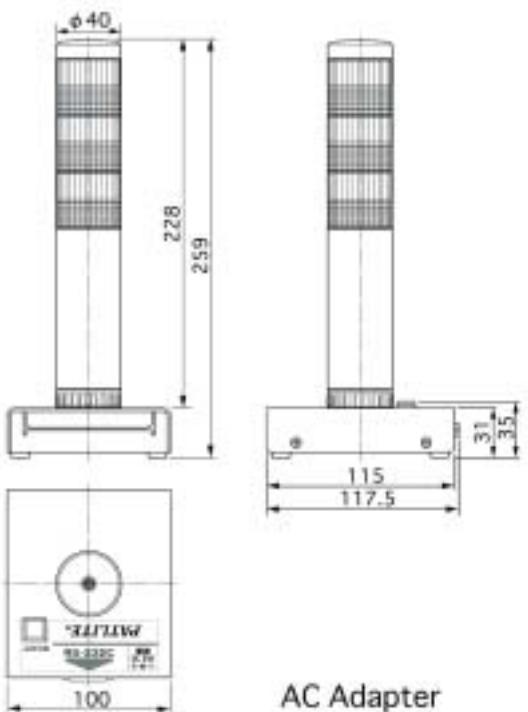
## PC Controlled Light

### PHE-3FB

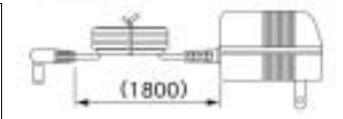
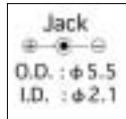
#### Specifications

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

#### Dimensions (mm)



AC Adapter



## The PHE-3FB PC-controlled Signal Tower Light—

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.

#### LED 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](http://www.patlite.com).
- RS232C straight-through cable required.
- Comes with standard light configuration: red/yellow/green.

## PATLITE ME

### Super Slim Size

**MES-T**

40mm Body Size

**ME-T**

200mm Body Size

If longer pole is required, 500mm body size  
available by special order only.

STYLE	MODEL	RATED VOLTAGE	WATTAGE
1 LIGHT	ME / MES-102T	24V DC	0.6W
2 LIGHT	ME / MES-202T	24V DC	1.2W
3 LIGHT	ME / MES-302T	24V DC	1.7W
4 LIGHT	ME / MES-402T	24V DC	2.2W
5 LIGHT	ME / MES-502T	24V DC	2.7W

12V DC version available by special order.

Optional Mounting Brackets (See Pg. 46 & 47)



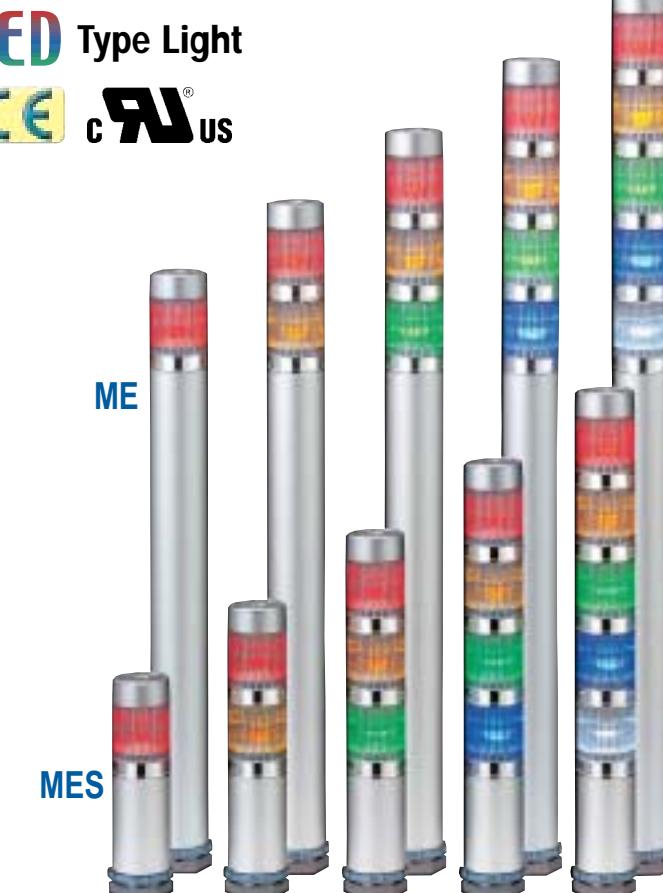
\* Requires SZ-903 Adapter

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

## ME Series Super Slim Indicating Light—

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

### LED Type Light



### Ø25mm

- 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).

## PATLITE

# LCE

### Pole Mount

**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

STYLE	MODEL	RATED VOLTAGE	WATTAGE
1 LIGHT	Direct Mount LCE-102TW / TFBW	24V AC/DC	1.7W
	Pole Mount LCE-102T / TFB	90 to 250V AC	1.9W
	Direct Mount LCE-1M2W / FBW	24V AC/DC	2.4W
	Pole Mount LCE-1M2 / FB	90 to 250V AC	2.6W
2 LIGHT	Direct Mount LCE-202TW / TFBW	24V AC/DC	2.4W
	Pole Mount LCE-202T / TFB	90 to 250V AC	2.6W
	Direct Mount LCE-2M2W / FBW	24V AC/DC	3.0W
	Pole Mount LCE-2M2 / FB	90 to 250V AC	3.2W
3 LIGHT	Direct Mount LCE-302TW / TFBW	24V AC/DC	3.0W
	Pole Mount LCE-302T / TFB	90 to 250V AC	3.2W
	Direct Mount LCE-3M2W / FBW	24V AC/DC	3.6W
	Pole Mount LCE-3M2 / FB	90 to 250V AC	3.8W
4 LIGHT	Direct Mount LCE-402TW / TFBW	24V AC/DC	3.6W
	Pole Mount LCE-402T / TFB	90 to 250V AC	3.8W
	Direct Mount LCE-4M2W / FBW	24V AC/DC	4.2W
	Pole Mount LCE-4M2 / FB	90 to 250V AC	4.4W
5 LIGHT	Direct Mount LCE-502TW / TFBW	24V AC/DC	4.2W
	Pole Mount LCE-502T / TFB	90 to 250V AC	4.4W
	Direct Mount LCE-5M2W / FBW	24V AC/DC	4.8W
	Pole Mount LCE-5M2 / FB	90 to 250V AC	5.0W

Optional Mounting Brackets (See Pg. 46 & 47)



\* Requires SZ-903 Adapter

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

## LCE Series Indicating Light—

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

LED Type Light



LCE-W



LCE



ø40mm

- Colors available: red, yellow, green, blue, and clear.
- \*LCE & LCE-FB/FBW types: IP-54. LCE-W: IP-65.
- 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).

# PATLITE

# LES

## Pole Mount

### LES-A

Continuous Light

## Direct Mount

### LES-AW

Continuous Light

STYLE	MODEL	RATED VOLTAGE	WATTAGE
1 LIGHT	Direct Mount LES-102AW	24V AC/DC	0.6W
2 LIGHT	Pole Mount: LES-102A		
3 LIGHT	Direct Mount LES-202AW	24V AC/DC	1.2W
4 LIGHT	Pole Mount: LES-202A		
5 LIGHT	Direct Mount LES-302AW	24V AC/DC	1.7W
	Pole Mount: LES-302A		
	Direct Mount LES-402AW	24V AC/DC	2.2W
	Pole Mount: LES-402A		
	Direct Mount LES-502AW	24V AC/DC	2.7W
	Pole Mount: LES-502A		

#### Note:

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

(Consult with factory if other combinations are required)

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



\*Requires SZ-903 adapter

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

## LES Series Indicating Light—

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

LED Type Light



## 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.

## PATLITE



### 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

### DIRECT MOUNT TYPE

STYLE	MODEL	RATED VOLTAGE	WATTAGE
1 LIGHT	LEL-101W / FBW	12V AC/DC	1.1W
	LEL-102W / FBW	24V AC/DC	1.8W
	LEL-103W / FBW	120V AC	9.7W
2 LIGHT	LEL-201W / FBW	12V AC/DC	1.7W
	LEL-202W / FBW	24V AC/DC	2.3W
	LEL-203W / FBW	120V AC	6.7W
3 LIGHT	LEL-301W / FBW	12V AC/DC	3.2W
	LEL-302W / FBW	24V AC/DC	3.7W
	LEL-303W / FBW	120V AC	7.5W
4 LIGHT	LEL-401W / FBW	12V AC/DC	3.2W
	LEL-402W / FBW	24V AC/DC	3.2W
	LEL-403W / FBW	120V AC	6.3W
5 LIGHT	LEL-501W / FBW	12V AC/DC	3.2W
	LEL-502W / FBW	24V AC/DC	3.7W
	LEL-503W / FBW	120V AC	9.1W

FB type flashes 30 times per minute.

### POLE MOUNT TYPE

STYLE	MODEL	RATED VOLTAGE	WATTAGE
1 LIGHT	LE-101P / FBP	12V AC/DC	1.1W
	LE-102P / FBP	24V AC/DC	1.8W
2 LIGHT	LE-201P / FBP	12V AC/DC	1.7W
	LE-202P / FBP	24V AC/DC	2.2W
3 LIGHT	LE-301P / FBP	12V AC/DC	3.2W
	LE-302P / FBP	24V AC/DC	3.7W
4 LIGHT	LE-401P / FBP	12V AC/DC	3.2W
	LE-402P / FBP	24V AC/DC	3.2W
5 LIGHT	LE-501P / FBP	12V AC/DC	3.2W
	LE-502P / FBP	24V AC/DC	3.7W

Optional Mounting Brackets (See Pg. 46 & 47)



Optional custom poles up to 1000mm available (SL-1000mm)

\*Requires SZ-903 adapter

## LE Series Indicating Light—

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

LED Type Light



Available with DeviceNet or As-i



### ø50mm

- Colors available: red, yellow, green, blue, and clear.
- \*IP Rating: Direct Mount IP-54, Pole Mount IP-23.
- 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.

## PATLITE

# SE

**Pole Mount**

**SE-T**

Continuous Light

**SEFB-T**

Continuous and Flashing Light  
with Audible Alarms

STYLE	MODEL	RATED VOLTAGE	WATTAGE
1 LIGHT	SE / SEFB -102T	24V AC/DC	1.5W
	SE / SEFB -112T	120V AC	3.0W
2 LIGHT	SE / SEFB -202T	24V AC/DC	2.5W
	SE / SEFB -212T	120V AC	5.0W
3 LIGHT	SE / SEFB -302T	24V AC/DC	3.5W
	SE / SEFB -312T	120V AC	6.5W
4 LIGHT	SE / SEFB -402T	24V AC/DC	4.5W
	SE / SEFB -412T	120V AC	7.5W
5 LIGHT	SE / SEFB -502T	24V AC/DC	5.5W
	SE / SEFB -512T	120V AC	8.5W

220V AC version available by special order only.



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

## SE-T Series Indicating Light—

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

**LED Type Light**



**Ø57mm**

- 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.

# LME

## Pole Mount

**LME-T** Continuous Light

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

## Direct Mount

**LME-TW** Continuous Light

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

STYLE	MODEL	RATED VOLTAGE	WATTAGE
1 LIGHT	Direct Mount LME-102TW / TFBW	24V AC/DC	2.2W
	LME-112TW / TFBW	120V AC	5.1W
Pole Mount	LME-102T / TFB	24V AC/DC	2.2W
	LME-112T / TFB	120V AC	5.1W
2 LIGHT	Direct Mount LME-202TW / TFBW	24V AC/DC	3.4W
	LME-212TW / TFBW	120V AC	7.1W
Pole Mount	LME-202T / TFB	24V AC/DC	3.4W
	LME-212T / TFB	120V AC	7.1W
3 LIGHT	Direct Mount LME-302TW / TFBW	24V AC/DC	3.8W
	LME-312TW / TFBW	120V AC	7.9W
Pole Mount	LME-302T / TFB	24V AC/DC	3.8W
	LME-312T / TFB	120V AC	7.9W
4 LIGHT	Direct Mount LME-402TW / TFBW	24V AC/DC	4.2W
	LME-412TW / TFBW	120V AC	8.7W
Pole Mount	LME-402T / TFB	24V AC/DC	4.2W
	LME-412T / TFB	120V AC	8.7W
5 LIGHT	Direct Mount LME-502TW / TFBW	24V AC/DC	4.8W
	LME-512TW / TFBW	120V AC	9.5W
Pole Mount	LME-502T / TFB	24V AC/DC	4.8W
	LME-512T / TFB	120V AC	9.5W

## LME Series Indicating Light—

*The LME Series provides the latest in LED technology.*

**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).



Direct Mount

Optional Mounting Brackets (See Pg. 46 & 47)



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

# LME-Q

## Pole Mount

**LME-T-Q** Continuous Light

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

## Direct Mount

**LME-TW-Q** Continuous Light

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

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

**LED Type Light**  

- 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).



Direct Mount

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

STYLE	FB	MODEL	RATED VOLTAGE	WATTAGE
1 LIGHT	W/O	LME-102TW-Q1 (2 or 4)	24V DC	2.2W
	W/TH	LME-102TFBW-Q1 (2 or 4)	24V DC	2.2W
	W/H	LME-102T-Q1 (2 or 4)	24V DC	2.2W
	W/TH	LME-102TFB-Q1 (2 or 4)	24V DC	2.2W
Pole Mount	W/O	LME-112TW-Q1 (2 or 4)	120V AC	5.1W
	W/TH	LME-112TFBW-Q1 (2 or 4)	120V AC	5.1W
	W/H	LME-112T-Q1 (2 or 4)	120V AC	5.1W
	W/TH	LME-112TFB-Q1 (2 or 4)	120V AC	5.1W

FR type features 10 times per minute.



## Direct Mount

### LU7

Continuous Light

### LU7-FB

Continuous and Flashing Light with Audible Alarms

## How to Order:

Base Module (including cap)		
Model	Rated Voltage	Alarm / Flash
LU7-02	24V DC	—
LU7-02FB	24V DC	2 Alarms/Flash
LU7-M2	90~250V AC	—
LU7-M2FB	90~250V AC	2 Alarms/Flash

LED Module	
Model	Color
LU7-E-R	Red
LU7-E-Y	Yellow
LU7-E-G	Green
LU7-E-B	Blue
LU7-E-C	Clear

## Terminal Wiring Chart

Terminal Number	Corresponding Unit or Operation	Ref: Wiring Diagrams ( Page 22 )	
		Diagrams 1 & 2	Diagram 3
CN2-1	Red LED Unit	Light Wire 1	Light Wire 1
CN2-2	Yellow LED Unit	Light Wire 2	Light Wire 2
CN2-3	Green LED Unit	Light Wire 3	Light Wire 3
CN2-4	Blue LED Unit	Light Wire 4	Light Wire 4
CN2-5	Clear LED Unit	Light Wire 5	Light Wire 5
CN2-6	Continuous Alarm	Alarm 1	Alarm 1
CN2-7	Intermittent Alarm	Alarm 2	Alarm 2
CN2-8	Power Supply	Power 1	Continuous Common
CN2-9	Flashing Common	Flashing Common	Flashing Common
CN2-10	Power Supply	Power 2	N / A
CN4-1	High Voltage Supply	N / A	Power 1
CN4-2	High Voltage Supply	N / A	Power 2
CN5	Earth Ground	N / A	Earth Ground

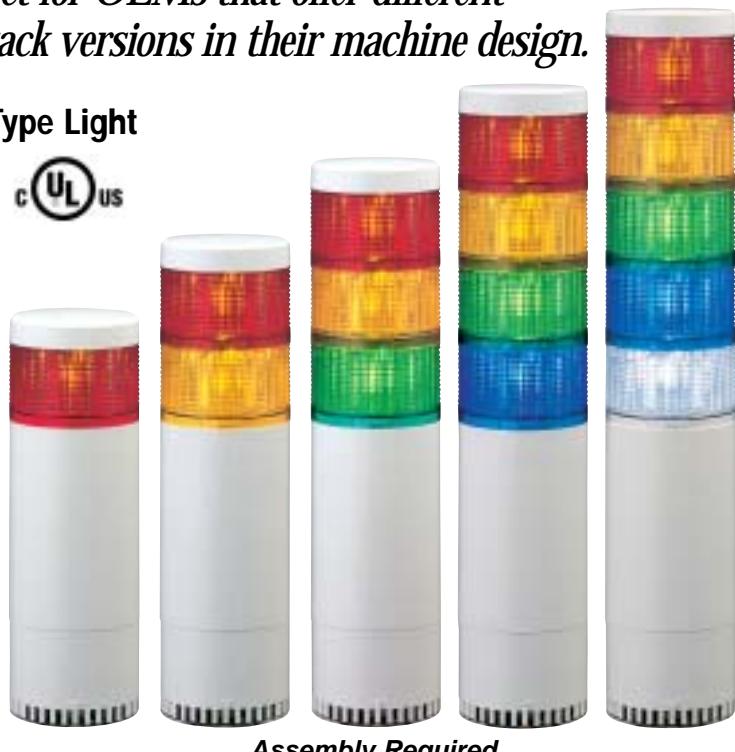
**Wire Sizes:** CN2-(1-10): AWG 26-20, UL1007, UL1430  
**CN4-1, CN4-2:** AWG 18-16, UL1015  
**CN5:** AWG 18-14, UL1015

**LU7 Series**  
**Modular System Indicating Light—**  
*is perfect for OEMs that offer different multi-stack versions in their machine design.*

### LED Type Light



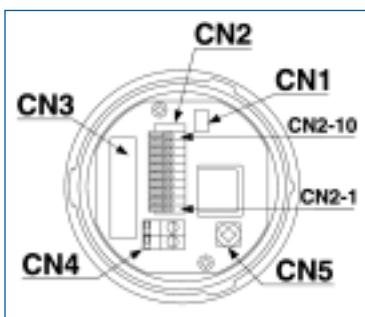
Terminal Base



### Ø70mm

- 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 removed from the terminal base for shipping, and re-installed without tools.

### Terminal Diagram



NOTE: See page 23 for dimensions.

# PATLITE

# LGE

## Light Modules

### LGEM



## Power Units

### LGEBC

Continuous Light

### LGEBC-FB

Continuous and Flashing Light with Audible Alarm

## Shaft Assembly

### LGSHAFT

#### LIGHT-MODULE

LIGHT UNIT	COLOR	RATED VOLTAGE	WATTAGE
LGEM-24-R	RED		
LGEM-24-Y	YELLOW		
LGEM-24-G	GREEN		
LGEM-24-B	BLUE		
LGEM-24-C	CLEAR		

#### POWER UNIT

POWER UNIT	RATED VOLTAGE	TYPE OPERATION
LGEBC-120	120V AC	Continuous
LGEBC-24	24V AC/DC	Continuous
LGEBC-120FB	120V AC	Continuous / Flashing with Audible Alarm option
LGEBC-24FB	24V AC/DC	Continuous / Flashing with Audible Alarm option

#### SHAFT ASSEMBLY

PART NO.	LIGHT- MODULES PER BASE UNIT
LGSHAFT-1	1
LGSHAFT-2	2
LGSHAFT-3	3
LGSHAFT-4	4

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

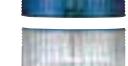
## LGE Series Large Indicating Light—

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

### LED Type Light



#### Light Modules



#### Shaft Assembly (comes with 2 shafts)



#### Power Unit



### ø100mm

- Colors available: red, yellow, green, blue, and clear (Blue and Clear LEDs are at a premium).
- \*Meets IP-54 (Sealant required for wire entry hole and mounting area).
- Units are stackable up to 4 lights (New shaft purchase is required).
- Large diameter signal tower is visible from great distances, with lens dimensions: 100mm x 50mm.
- Available with flashing and an audible alarm of 85dB (at 1m).
- NPN or PNP open collector compatible (24V DC only).

### How to Order (Example)

Three LED lights (Red, Yellow, Green) with flashing at input voltage of 120V AC:

1. Power Unit: LGEBC-120FB x 1 pc
2. Light Module: LGEM24-R x 1 pc  
LGEM24-Y x 1 pc  
LGEM24-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.



SZ-30L



SZ-30T

### Optional Mounting Brackets

(See Pg.46-47)

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

# PATLITE

# WE

## Wall Mount

**WE-T** Continuous Light

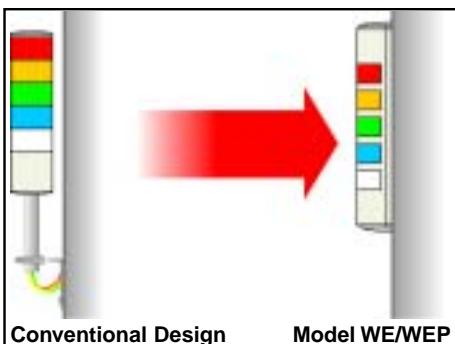
**WE-TFB** Continuous and Flashing Light with Audible Alarms

**WEP-T** Continuous Light

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

STYLE	MODEL	RATED VOLTAGE	WATTAGE
3 LIGHT	WE / WEP-302T-RYG	24V AC/DC	1.7 W
	WE / WEP-302T-RYB		
	WE / WEP-302T-RCY		
4 LIGHT	WE / WEP-302TFB-RYG	24V AC/DC	2.7 W
	WE / WEP-302TFB-RYB		
	WE / WEP-302TFB-RCY		
6 LIGHT	WE / WEP-402T-RYGB	24V AC/DC	2.0 W
	WE / WEP-402T-RYGC		
	WE / WEP-402T-CYGB		
8 LIGHT	WE / WEP-402TFB-RYGB	24V AC/DC	3.2 W
	WE / WEP-402TFB-RYGC		
	WE / WEP-402TFB-CYGB		

FB type: 60 flashes / minute.



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

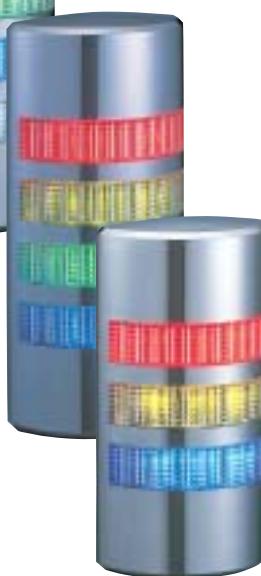
## WE Series Wall mounted Indicator—

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

**LED Type Light**



**WEP**  
Cream Color Cover



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: See pages 22 & 23 for wiring and dimensions.

## PATLITE WM

### LED Type

**WME-A** Continuous Light

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

### Bulb Type

**WM-T** Continuous Light

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

### LED Type:

STYLE	MODEL	RATED VOLTAGE	WATTAGE
2 LIGHT	WME-302-A / WME-302-AFB	24V AC/DC	See Note Below*
	WME-2M2-A / WME-2M2-AFB	90-250V AC	See Note Below*
3 LIGHT	WME-302-A / WME-302-AFB	24V AC/DC	See Note Below*
	WME-3M2-A / WME-3M2-AFB	90-250V AC	See Note Below*
4 LIGHT	WME-402-A / WME-402-AFB	24V AC/DC	See Note Below*
	WME-4M2-A / WME-4M2-AFB	90-250V AC	See Note Below*
5 LIGHT	WME-502-A / WME-502-AFB	24V AC/DC	See Note Below*
	WME-5M2-A / WME-5M2-AFB	90-250V AC	See Note Below*

\*NOTE:

Wattage for WME-A		
	24V AC/DC	90-250V AC
Red	0.6W	1.1W
Yellow	0.7W	1.1W
Green	0.5W	1.1W
Blue	1.0W	1.5W
Clear	1.0W	1.5W
Buzzer	1.0W	1.4W
Waiting	—	0.6W

### Bulb Type:

STYLE	MODEL	RATED VOLTAGE	BULB	No.
2 LIGHT	WM-202T / WM-202TFB	24V AC/DC	28V 11W	38
	WM-212T / WM-212TFB	120V AC	140V 13W	48
3 LIGHT	WM-302T / WM-302TFB	24V AC/DC	28V 11W	38
	WM-312T / WM-312TFB	120V AC	140V 13W	48
4 LIGHT	WM-402T / WM-402TFB	24V AC/DC	28V 11W	38
	WM-412T / WM-412TFB	120V AC	140V 13W	48
5 LIGHT	WM-502T / WM-502TFB	24V AC/DC	28V 11W	38
	WM-512T / WM-512TFB	120V AC	140V 13W	48

(NEMA • 200-240V AC version available by special order.)

## WM Series Wall Mounted Indicator—

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

**LED**  
Type Light



### 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.

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

# WSL

## Manual Indicating Light

### WSL

Continuous Light

### WSLF

Continuous and Flashing Light  
with Audible Alarms

#### WSL Type:

MODEL	OVERALL HEIGHT (mm)	Color
WSL-3W-RYG (wall)	535	RED/YELLOW/GREEN
WSL-3D-RYG (desk)	487	RED/YELLOW/GREEN
WSL-4W-RYGB (wall)	565	RED/YELLOW/GREEN/BLUE
WSL-4D-RYGB (desk)	517	RED/YELLOW/GREEN/BLUE

#### WSLF Type:

MODEL	OVERALL HEIGHT (mm)	Color
WSLF-3W-RYG (wall)	587	RED/YELLOW/GREEN
WSLF-3D-RYG (desk)	539	RED/YELLOW/GREEN
WSLF-4W-RYGB (wall)	617	RED/YELLOW/GREEN/BLUE
WSLF-4D-RYGB (desk)	569	RED/YELLOW/GREEN/BLUE

# HSST

## Manual Indicating Light

### HSST-312-RYG

Continuous Light

The HSST-312 kit, complete  
as shown below:



## 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.*

NOTE: See page 23  
for WSL dimensions.



WSL-3W-RYG  
Wall Mount

WSL-3D-RYG  
Desktop

### 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).

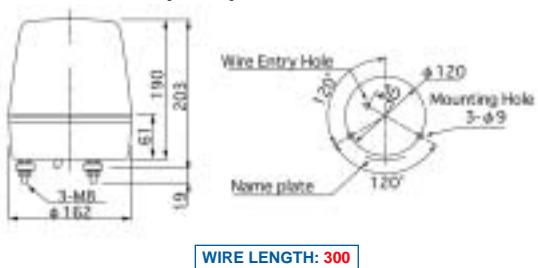
# XP

## Large Strobe

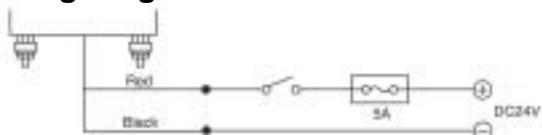
MODEL	RATED VOLTAGE	POWER CONSUMPTION	RECOMMENDED FUSE	FLASHES PER MINUTE	WEIGHT
XP-24	24V DC	17W	5A	110	1.3Kg

Note: Average power consumption shown. Fuse rating reflects momentary peak current drawn by Xenon lamp.

### Dimensions (mm)



### Wiring Diagram



ø162mm Round  
Xenon  
Pre-Assembled Pre-Wired

### Xenon Type Light



### ø162mm

- 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.

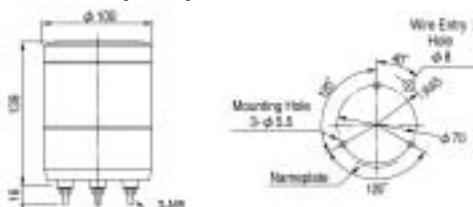
# KX

## Mini-Size Flashing

MODEL	RATED VOLTAGE	POWER CONSUMPTION	RECOMMENDED FUSE	FLASHES PER MINUTE	WEIGHT
KX-12T	12V DC	8W	125V, 3A	0.42Kg	
KX-24T	24V DC		125V, 1A	30~90	
KX-120T	120V AC	4W	250V, 0.5A		0.40Kg

Note: Average power consumption shown. Fuse rating reflects momentary peak current drawn by Xenon lamp.

### Dimensions (mm)



NOTE: See page 31 for wiring diagram.

ø100mm Round  
IP-55\*  
IP-23\*  
Xenon  
Pre-Assembled Pre-Wired

### Xenon Type Light



### ø100mm

- 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.



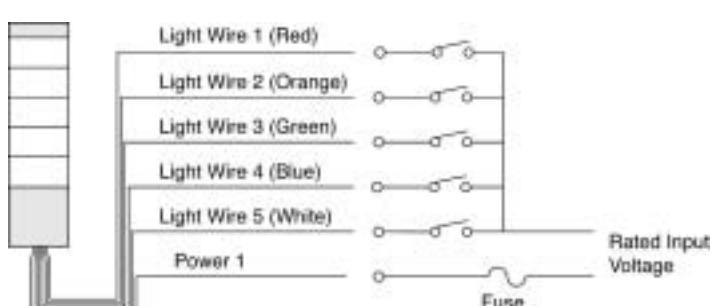
# Signal Tower Wiring Diagrams

Refer to the tables and wiring diagrams below, to determine wiring, wire colors and voltages available

① Please Note: Light wire colors correspond to LED module colors, except that the Orange Wire is used for the Yellow Light.

## Diagram #1— Continuous Only

DIAGRAM #1		WIRE COLORS
Continuous Towers	Rated Voltage	Power 1
MT, WM	24 / 120	Yellow
LE, LEL, LES	24	Black
LCE, LME, LME-Q, ME, MES, SE, WE, WEP, WME-A	24	Yellow

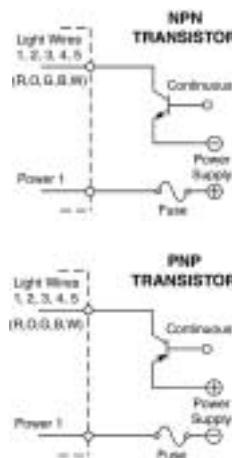


ME, MEL, MES Series: 24VDC only, with only one polarity: plus (+) on Yellow (NPN).

Opposite polarity with minus (-) on Yellow (PNP) is available by special order only.

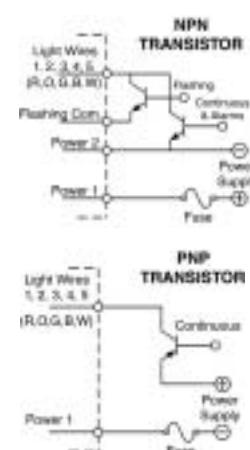
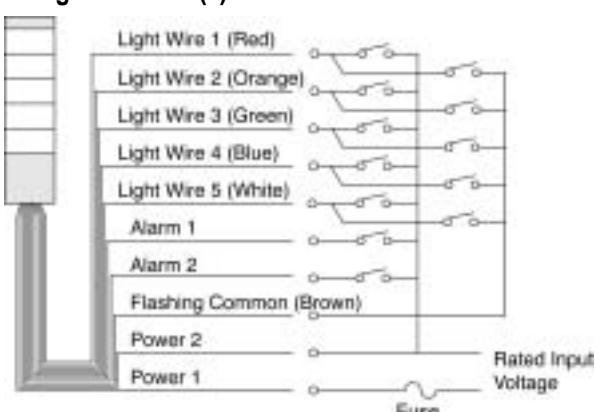
LME-Q Series: 24V model is DC only, with only one polarity: plus (+) on Yellow (NPN).

MT Series: 12V model also available.



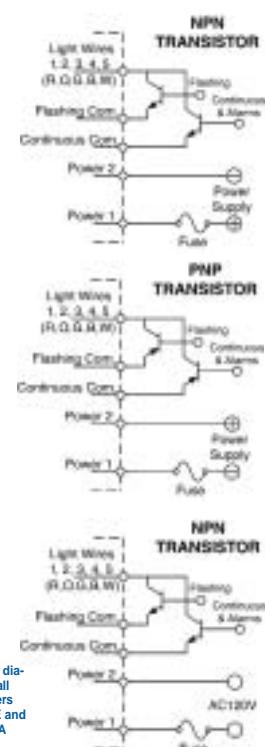
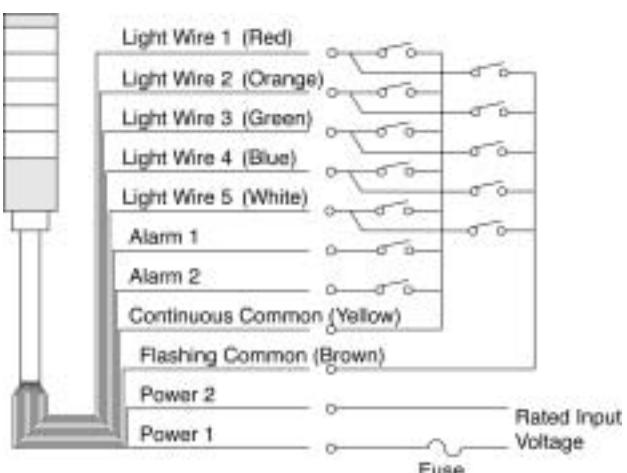
## Diagram #2— Continuous and Flashing with Alarm(s)

DIAGRAM #2		WIRE COLORS	
Continuous and Flashing with Alarm(s)	Rated Voltage	1. Power 1	1. Alarm 1 2. Alarm 2
WM-FB	24 / 120	1. Yellow 2. Gray	1. Sky Blue 2. None
LE-FB LEL-FB	24	1. Black 2. Gray	1. Purple 2. Sky Blue
LCE-FB, LME-FB, LME-FB-Q, SEFB, WE-FB, WEP-FB, WME-AFB	24	1. Yellow 2. Gray	1. Purple 2. Sky Blue



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

DIAGRAM #3		WIRE COLORS	
Continuous or Continuous and Flashing with Alarm(s)	Rated Voltage	1. Power 1	1. Alarm 1 2. Alarm 2
LGE, LGE-FB	24 / 120	1. Black 2. White	1. Sky Blue 2. None
LEL, LCE, SE, LME, LME-Q, WME-A	120	1. Black 2. Gray	1. None 2. None
LCE-FB, LEL-FB, LME-FB, LME-FB-Q, SEFB, WME-AFB	120	1. Black 2. Gray	1. Purple 2. Sky Blue



### NOTES:

1. Transistors, switches and fuses shown are to be supplied by the customer.
2. Fuse rating is 1A (WM-24V model has a 3A fuse).
3. The WM and LGE Series have a fuse installed internally.
4. Never connect Brown to Gray.
5. Open-collector transistor control is for 24VDC or 120VAC units except where noted.
6. All 5 light wires are supplied even if not all colors are used, except for the following: MT, WE / WEP, WM, and LES Series.

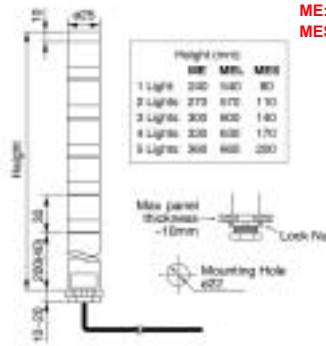
This transistor diagram is for all AC120V towers except the LGE and WM / WME-A Series.

# Signal Tower Dimensions

Refer to the diagrams below to determine Signal Tower dimensions (in mm)

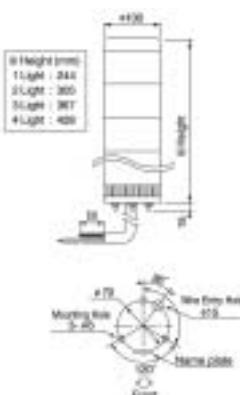
**ME**

WIRE LENGTH:  
ME: 300  
MES: 460



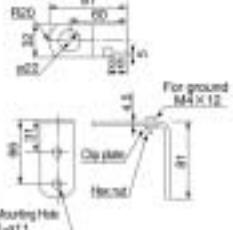
**LGE**

WIRE LENGTH:  
LGE: 400



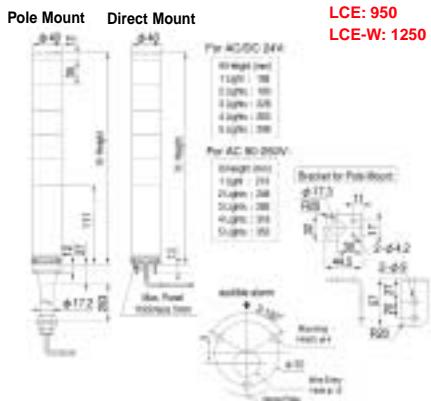
**SE**

WIRE LENGTH:  
SE(FB)-T: 300



**LCE**

WIRE LENGTH:  
LCE: 950  
LCE-W: 1250

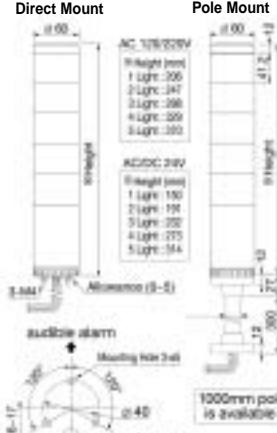


Direct Mount

Pole Mount

**LME**

WIRE LENGTH:  
LME: 950  
LME-W: 1250



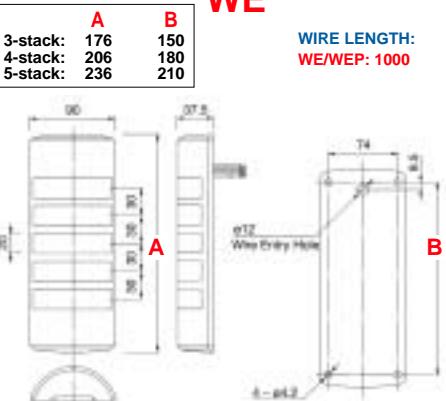
**LME-Q**

WIRE LENGTH:  
LME-Q: 900  
LME-W-Q: 1200



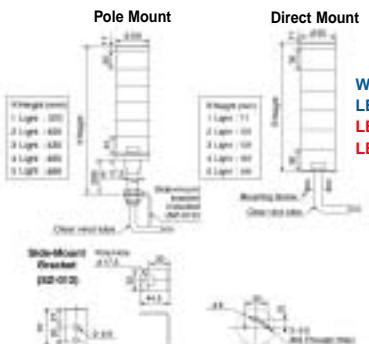
**WE**

WIRE LENGTH:  
WE/WEP: 1000



**LES**

WIRE LENGTH:  
LES-A: 900  
LES-AW: 1250



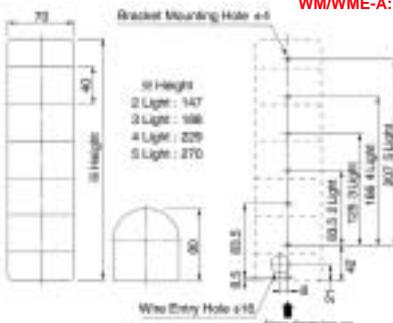
**ST / STPB  
STF / STFPB**

WIRE LENGTH: 300



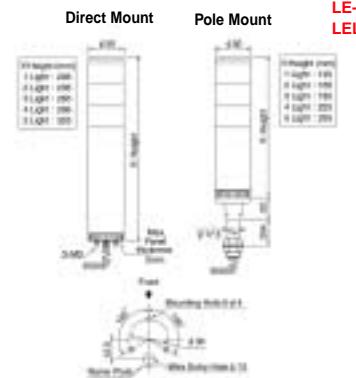
**WM**

WIRE LENGTH:  
WM/WME-A: 900



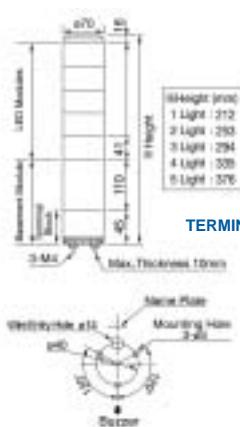
**LE**

WIRE LENGTH:  
LE-P: 650  
LEL: 700



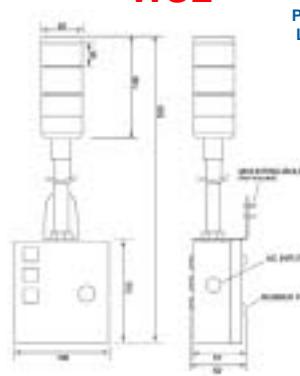
**LU7**

TERMINALS PROVIDED



**WSL**

POWER CABLE LENGTH: 1800



# Rotating Warning Lights

## Beacons & Cubes

### Rotating Warning

MODEL	PAGE
RU	25
PS	25
PEW/PES	26
KP	26
RH-A/RHB-A	27
WH-A/WHB-A	27
WK-A/WKB-A	27
SKH-EA	28
SKH-A/SKHB-A	28

### Cube Tower

KUS	29
KJS/KJSB	30
KJ/KJB	30
Wiring Diagrams	31



## RU

### Mini-Size

#### RU

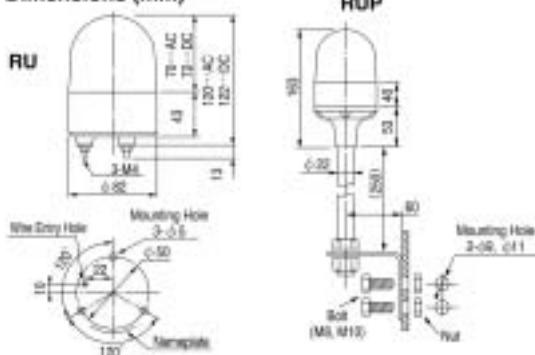
##### Rotating Beacon

#### RUP

##### with Pole and Bracket

MODEL	RATED VOLTAGE	CURRENT DRAW	BULB No.	ROTATION PER MINUTE	WEIGHT	RUP	RUPP
RU/RUP-12	12V DC	0.5A	12V6W 20				
RU/RUP-24	24V DC	0.3A	24V6W 21	120	0.4Kg 0.8Kg		
RU/RUP-120	120V AC	0.1A	12V6W 20		0.6Kg 1.0Kg		

##### Dimensions (mm)



NOTE: See page 31 for wiring diagram.

## RU Series Mini-Size Beacon—

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

ø82mm Round  
IP-55\*  
IP-23\*  
Pre-Assembled  
Pre-Wired



RU



RUP

With Optional  
Rubber Gasket  
SZ-210

ø82mm

- Colors available: red, yellow, green, and blue.
- \*IP Rating: IP-23. RU meets IP-55 with rubber gasket SZ-210.
- 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

### Mini-Size

#### PS

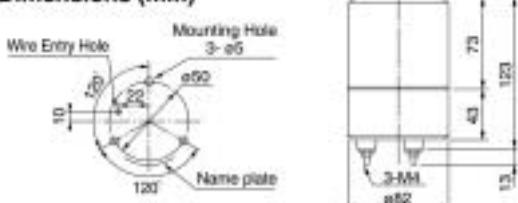
##### Continuous Light

#### PSF

##### Flashing Light

MODEL	RATED VOLTAGE	BULB	CURRENT DRAW	WEIGHT
PS/PSF-12	12V AC/DC	12V10W 9	1A	
PS/PSF-24	24V AC/DC	24V10W 10	0.5A	0.3Kg
PS/PSF-120	120V AC	140V10W 15	0.1A	

##### Dimensions (mm)



NOTE: See page 31 for wiring diagram.

## PS Series Mini-Size Beacon—

The PS/PSF Series, attractively designed mini-size warning lights.

ø82mm Round  
IP-55\*  
IP-23\*  
Pre-Assembled  
Pre-Wired



ø82mm

- Colors available: red, yellow, green, and blue.
- \*IP Rating: IP-23 (meets IP-55 with rubber gasket SZ-210).
- 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).

With Optional  
Rubber Gasket  
SZ-210

## PEW/PES

### Super Mini Size

**PEW** Continuous and Flashing

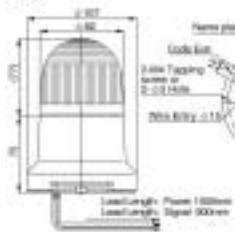
**PEW/B** with Audible Alarm

**PES** Continuous and Flashing

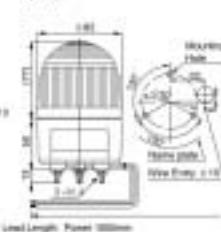
MODEL	RATED VOLTAGE	WATTAGE	FREQUENCY OF FLASH	SOUND LEVEL (BUZZER TYPE ONLY)
PEW-24T(B)	24V AC/DC	2.5W	Approx. 180/120/60 times/minute	From 70dB to 85dB (at 1m)
PES-24T	24V AC/DC	1.5W		

#### Dimensions (mm)

**PEW**



**PES**



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.

ø82mm Round	IP-65*	Electronic Alarms
	IP-55*	
	IP-23*	

85 dB/m	NPN Open-Collector Compatible	Pre-Assembled Pre-Wired
---------	-------------------------------	-------------------------



#### ø82mm

- 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).

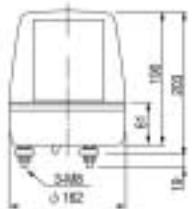
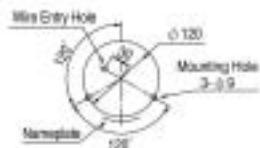
## KP-A

### Large Size

**KP-A** Rotating Beacon

MODEL	RATED VOLTAGE	CURRENT DRAW	BULB No.	ROTATION PER MINUTE	WEIGHT
KP-24A	24V DC	1.5A	24V35W 57	180	1.1Kg
KP-120A	120V AC	0.4A	120V40W 60	140	1.2Kg

#### Dimensions (mm)



NOTE: See page 31 for wiring diagram.

### 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.

ø162mm Round	IP-23	Pre-Assembled Pre-Wired
--------------	-------	-------------------------



#### ø162mm

- Colors available: red, yellow, green & 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.

# Rotating Warning Lights

PATLITE

## RH-A RHB-A

### Mini-Size

#### RH-AUL

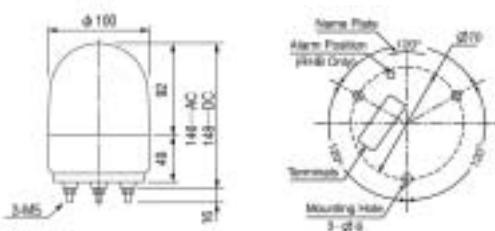
Rotating Beacon

#### RHB-AUL

with Audible Alarm

MODEL	RATED VOLTAGE	CURRENT DRAW	BULB	ROTATION PER MINUTE	WEIGHT
RH-RHB-24AUL	24V DC	0.5A	24V10W	10	0.4Kg
RH-RHB-120AUL	120V AC	0.1A	12V5W	11	0.5Kg

Dimensions (mm)



NOTE: See page 31 for wiring diagram.

### 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.

ø100mm Round	IP-55	Electronic Alarm: 1	90 dB/m	Pre-Assembled
--------------	-------	---------------------	---------	---------------



Rubber Gasket SZ-200A

### ø100mm

- 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 WK-A/WKB-A

### Wall Mount Beacons

#### WH-A / WK-A

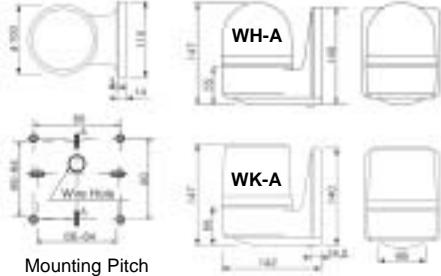
Rotating Beacon

#### WHB-A / WKB-A

with Audible Alarm

MODEL	RATED VOLTAGE	BULB	ROTATION PER MINUTE	WEIGHT
WH-12A / WK-12A	12V DC	12V10W	9	0.5Kg
WH-24A / WK-24A	24V DC	24V10W	10	0.5Kg
WH-120A / WK-120A	120V AC	12V5W	11	0.7Kg
WHB-12A / WKB-12A	12V DC	12V10W	9	0.5Kg
WHB-24A / WKB-24A	24V DC	24V10W	10	0.5Kg
WHB-120A / WKB-120A	120V AC	12V5W	11	0.7Kg

Dimensions (mm)



NOTE: See page 31 for wiring diagram.

### WH-A and WHB-A Series Wall Mount Beacons—

Colorful wall-mounted rotating beacons in 2 dome styles.

ø100mm Round	IP-54*	Electronic Alarm: 1	90 dB/m	Pre-Assembled
	IP-23*			



### WH-A / WHB-A



### ø100mm

- Colors available: red, yellow, green, and blue.
- \*WHB-A & WKB-A (upright) meet IP-23, WH-A & WK-A meet IP-54.
- 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.

### WK-A / WKB-A

## SKH-EA

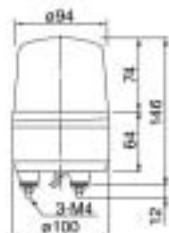
### Mini-Size

#### SKH-EA

#### Rotating Beacon

MODEL	RATED VOLTAGE	BULB No.	ROTATION PER MINUTE	WEIGHT
SKH-12EA	12V DC	12V10W 9		0.4Kg
SKH-24EA	24V DC	24V10W 10	170	
SKH-120EA	120V AC	12V5W 11		0.6Kg

#### Dimensions (mm)



NOTE: See page 31 for wiring diagram.

### SKH-EA Series Mini-Size—

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

ø100mm Round IP-23 Pre-Assembled Pre-Wired



12V and 24V only



#### ø100mm

- 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).

## SKH-A SKHB-A

### Standard Size

#### SKH-A

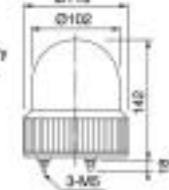
#### Rotating Beacon

#### SKHB-A

#### with Audible Alarm

MODEL	RATED VOLTAGE	BULB No.	ROTATION PER MINUTE	WEIGHT
SKH-101A / SKHB-12A	12V DC	12V10W 9		0.4Kg
SKH-102A / SKHB-24A	24V DC	24V10W 10		
SKH-110A / SKHB-100A	100V AC	12V5W 11	170	0.6Kg
SKH-112A / SKHB-120A	120V AC	12V5W 11		
SKH-120A / SKHB-220A	220V AC	12V5W 11		

#### Dimensions (mm)



NOTE: See page 31 for wiring diagram.

### SKH-A Series Standard Size—

The SKH-A Series, economic rotating lights, come with one-piece lens and base.

ø118mm Round IP-23 Electronic Alarm: 1 90 dB/m Pre-Assembled Pre-Wired



12V and 24V only



#### ø118mm

- Colored acrylic lenses available in red, yellow, green, and blue.
- 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.
- IP Rating: IP-23.
- Optional mounting brackets available (SZ-30L, SZ-30T).

# PATLITE

# KUS

## Light Units

### KUS-S

Incandescent Bulb Type



### KUS-EA

LED Type



## Alarm Unit

### KUS-B



## Base Units

### KUS

Continuous Light

### KUS-F

Continuous or Flashing Light

#### KUS-S (Incandescent)

LIGHT UNIT	COLOR	RATED VOLTAGE	WATTAGE	BULB
KUS-S-R	RED			
KUS-S-Y	YELLOW			
KUS-S-G	GREEN	24V DC	0.6W	24VDC
KUS-S-B	BLUE			
KUS-S-C	CLEAR			

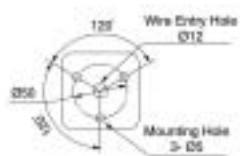
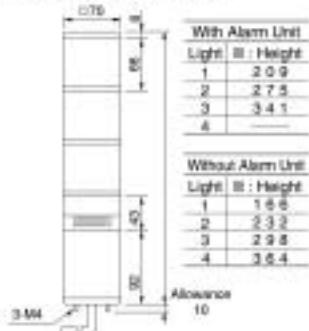
#### KUS-B

ALARM UNIT	RATED VOLTAGE	WATTAGE	VOLUME
KUS-B	24V DC	0.5W	70dB/10cm

#### KUS-EA (LED)

LIGHT UNIT	COLOR	RATED VOLTAGE	WATTAGE
KUS-EA-R	RED	24V DC	1.2W
KUS-EA-Y	YELLOW	24V DC	1.2W
KUS-EA-G	GREEN	24V DC	0.9W

## Dimensions (mm)



## KUS Series Multi-Layer Units—

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

LED  
Type Light



Assembly Required

ø70mm

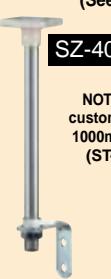
- \*IP Rating: IP-54 (except the KUS-B).
- Lenses: Made of heat & shock resistant polycarbonate resin.
- Light modules can be stacked up to 4 high in any color combination.
- Each light module has a built-in dip switch to control the light, on or off.
- Light units and base unit sold separately.
- Maximum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

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



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



NOTE: See page 31 for  
wiring diagram.

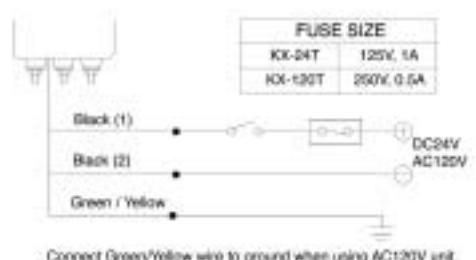


# Beacon/Cube Wiring Diagrams

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

**KX**

WIRE LENGTH: 250



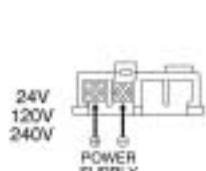
**PEW / PES**

WIRE LENGTH:  
PEW: 850  
PES: 800

All models have the same wiring scheme.

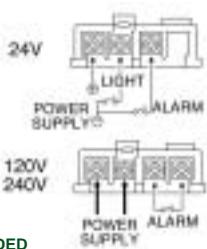


**RH-A**



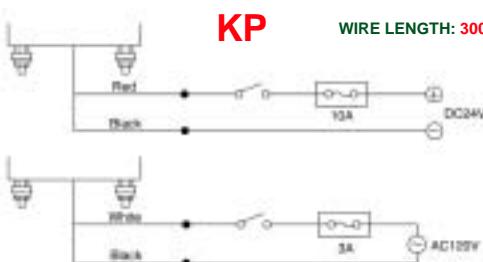
RH-A/RHB-A: TERMINALS PROVIDED

**RHB-A**



**KP**

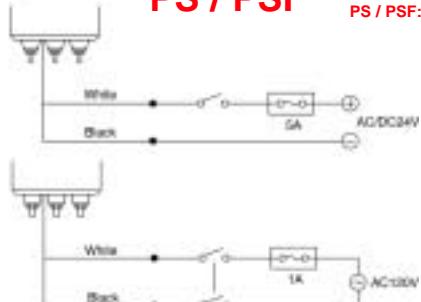
WIRE LENGTH: 300



KP-120 comes with a 2-prong AC plug on a 16 inch cord.

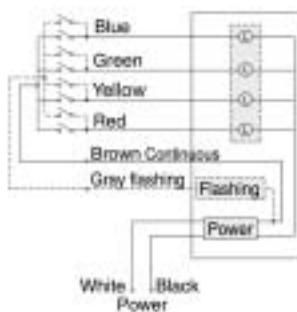
**PS / PSF**

WIRE LENGTH:  
PS / PSF: 300



**KUS / KUS-F**

WIRE LENGTH:  
KUS / KUS-F: 450

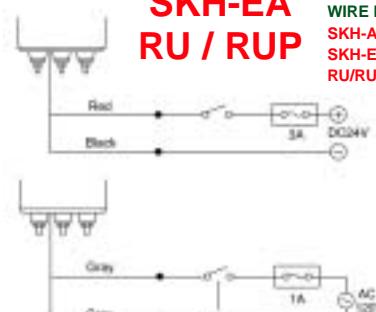


Contact Capacity per Light-Module.  
(Minimum)

Model	KUS-S	KUS-EA
Current Capacity	10 $\geq$ 1A	10 $\geq$ 0.2A
Withstand Voltage	VO > 45V	

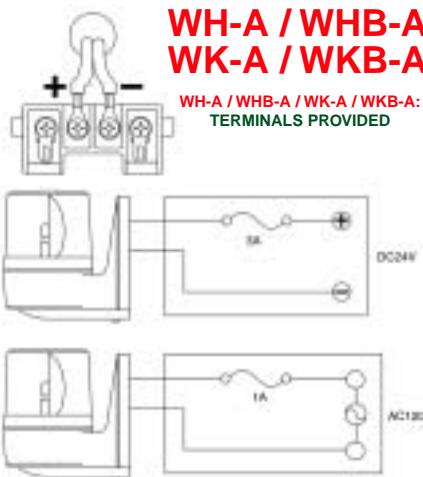
**SKH-A  
SKH-EA  
RU / RUP**

WIRE LENGTH:  
SKH-A: 300  
SKH-EA: 250  
RU/RUP: 250



**WH-A / WHB-A  
WK-A / WKB-A**

WH-A / WHB-A / WK-A / WKB-A:  
TERMINALS PROVIDED



**KJ / KJB (24VDC, 12VDC)**



WIRE LENGTH:  
KJ / KJB: 250

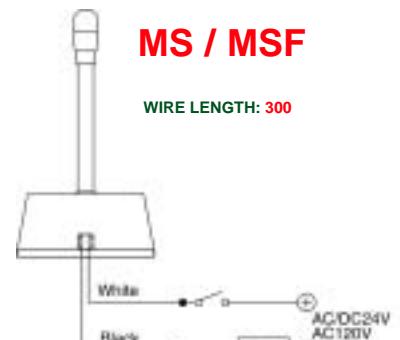
**KJ / KJB (120VAC, 220VAC)**



(Note) Gray lead wires do not exist in KJ type.

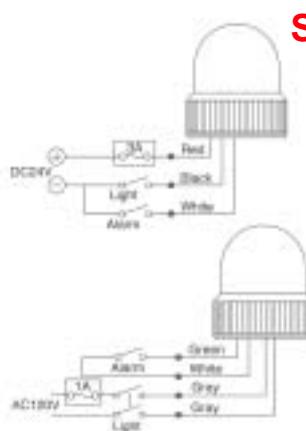
**MS / MSF**

WIRE LENGTH: 300



**SKHB-A**

WIRE LENGTH:  
SKHB-A: 300



# Audible Alarms

## Voice Synthesizers

Melody • Chime • Alarm Sound

### Voice Synthesizer

MODEL	PAGE
BT	33
PV	34-35
EVB	36
EVW	37
PVW	38
EW/EWS	39
EB-K, EB-L, EMB, ESB, ETB-B	40
BM	41
BA/BC	41

### Alarm w/ Rotating Light

RT	42
LGEH	43
KJT	44
Sound Selection	45



## PATLITE



### Alarm

#### BT-KA

##### Alarm

- BT-KA has 8 distinctive alert sounds.

### Chime

#### BT-L

##### Chime Phone

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

### Melody

#### BT-M

##### Melody Phone

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

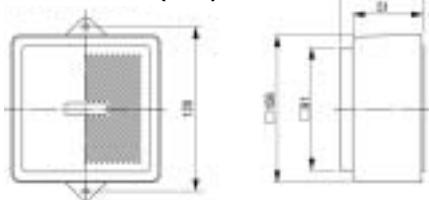
### Voice Synthesizer

#### BT-V

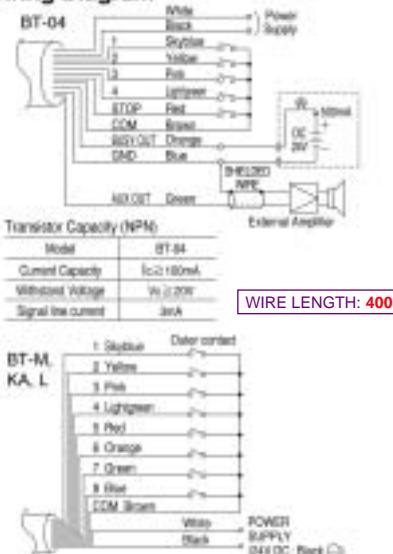
##### Signal Voice

- BT-V is 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)



### Wiring Diagram



## BT Series Audible Alarm—

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



### 108mm square

- Meets IP-54 rating.
- NPN open collector transistor compatible.
- One-shot contact closure (>100mS) replays selected channel one time only (BT-V).
- Continuous contact closure replays selected channel repeatedly.
- Mounts anywhere with 3 position bracket.
- Moisture proof structure, suitable for moist environments.

### BT-KA: Has 8 distinctive alert sounds.

MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME	WEIGHT
BT-24KA	24V AC/DC	3.5W	Max. 85dB/m	0.43kg
BT-120KA	120V AC	3W		0.5kg

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

MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME	WEIGHT
BT-24L	24V AC/DC	3.5W	Max. 85dB/m	0.43kg
BT-120L	120V AC	3W		0.5kg

### BT-M: 8 different popular melodies. Choose from G, H, or P types.

MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME	WEIGHT
BT-24M	24V AC/DC	3.5W	Max. 85dB/m	0.43kg
BT-120M	120V AC	3W		0.5kg

### BT-V: Select voice messages.

MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME	WEIGHT
BT-24V	24V AC/DC	7W	Approx. 85dB/m	0.43kg
BT-120V	120V AC	4W		0.5kg

NOTE: 100V AC, 220V AC versions available by special order.

## PATLITE PV Series— Programmable Voice/Message Annunciator

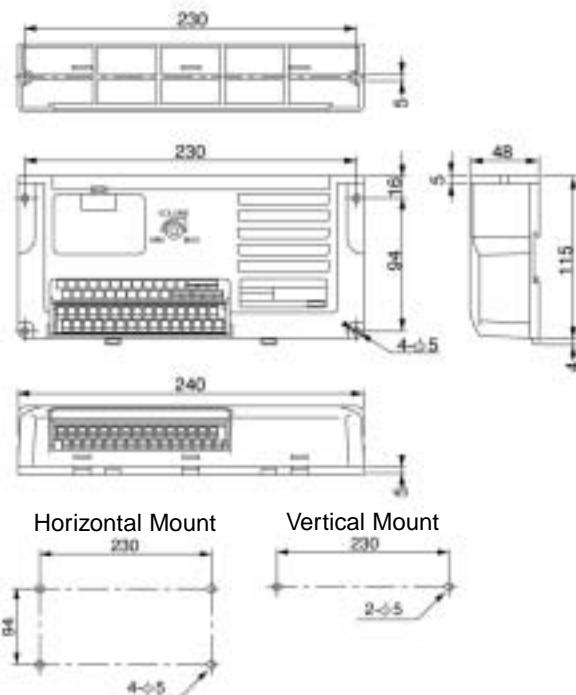
### Multi-Message Controller

**PV**

Voice Synthesizer



#### Dimensions (mm)



#### Programming

**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.

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.

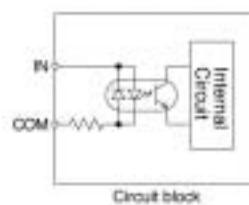
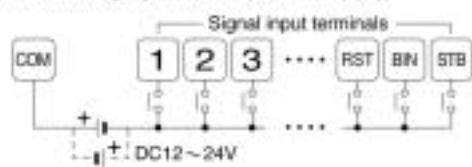
### Mountings

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



### Wiring Diagrams

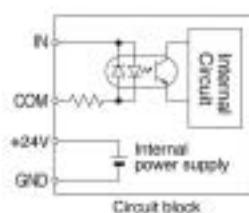
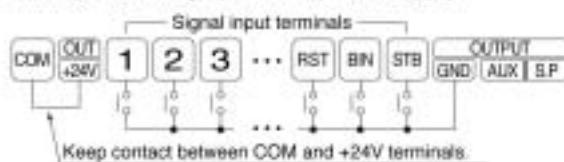
#### ● Example of wiring by external power supply



#### Input contact



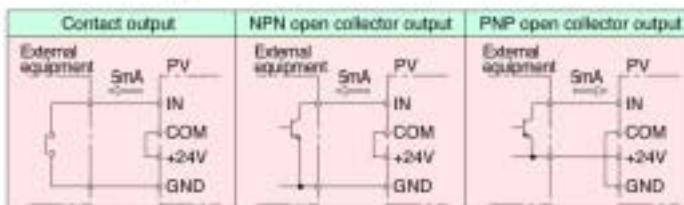
#### ● Example of wiring by internal power supply



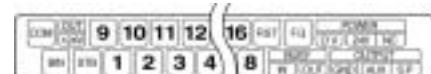
● One-Shot contact closure ( $\geq 100\text{ms.}$ ) replays selected channel one time only.

● Continuous contact closure replays selected channel repeatedly.

#### Input contact



### Terminal Block Diagrams

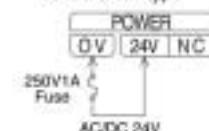


\* The greater number has priority.

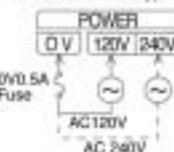


#### ① Power supply

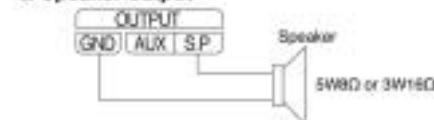
● AC/DC24V type



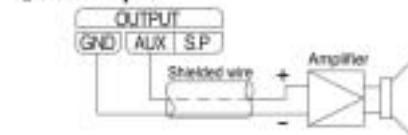
● AC120V/240V type



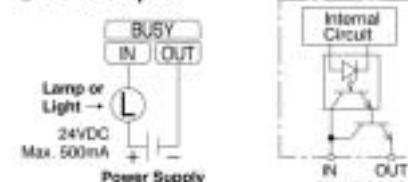
#### ② Speaker output



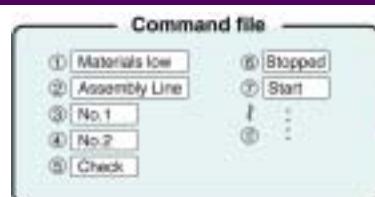
#### ③ AUX output



#### ④ BUSY output



### Example of Library Programming by Factory Software



Up to 127 commands with a total of 128 seconds are programmed into the PV's internal library.



Up to 32 channels with a maximum of 8 commands per channel.

### Optional Parts



Speaker (5W8Ω):  
SPW-5E



Speaker (3W16Ω):  
SPB-3D

MODEL	RATED VOLTAGE	POWER CONSUMPTION SILENT MODE	POWER CONSUMPTION PLAYBACK MODE	CHANNEL	MAX. OUTPUT	MESSAGE INPUTS	OPERATING TEMPERATURE RANGE	VOLUME	TOTAL PROGRAM TIME	WEIGHT
PV-32JEX	24V AC/DC	4W	15W	16 (1 Bit or 32/Binary)	5W 8Ω	16 (1 Bit or 6/Binary)	-10°C ~ +55°C (less than 85% RH)	Aprox. 110dBw with optional speaker (SPW-5E)	64 or 128 sec.	0.46kg
PV-32TEX	120V AC	6W	15W							0.51kg

# PATLITE EVB

## Self-Recordable Voice Announcer

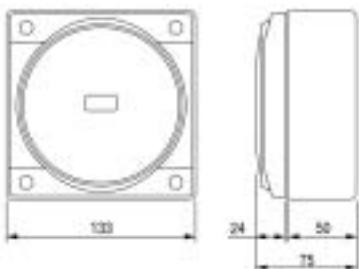
### EVB-04

Voice Synthesizer

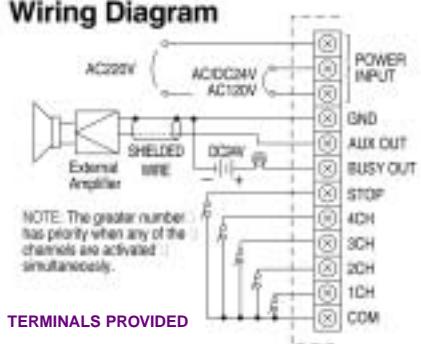
MODEL	RATED VOLTAGE	CHANNEL	MAX MESSAGE TIME	WATTAGE	OPERATING TEMPERATURE RANGE	VOLUME	WEIGHT
EVB-04F	24V AC/DC	4	60 SEC.	9W	-10°C ~ +55°C	Max. 90dB/m	0.8Kg
EVB-04TF	120V/220V AC						1.0Kg

KF/100-220V versions are available by special order.

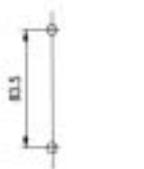
### Dimensions (mm)



### Wiring Diagram



### Mounting Pitch



## EVB-D Series Self-Recordable Announcer—

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



### 133mm square

- 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.

**PATLITE**  
**EVW**

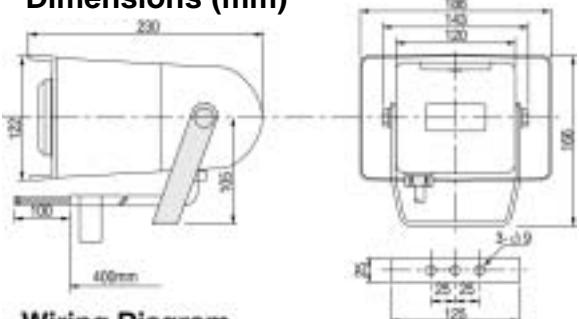
## *Recording and Playback*

EVW-04 Voice Synthesizer

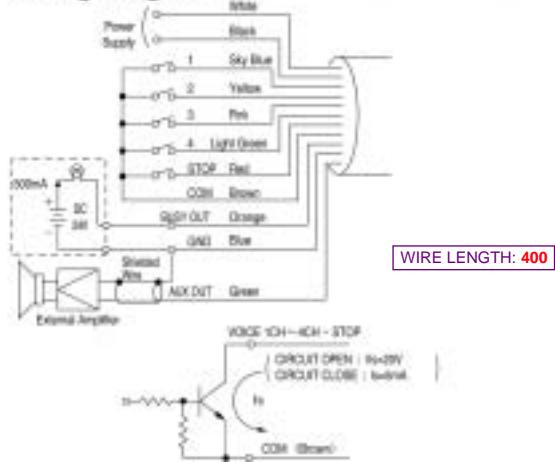
MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME	WEIGHT
EVW-04JF	120V AC/DC	12W	105dB (at 1m)	1.2kg
EVW-04KF	100V AC	18W		1.4kg
EVW-04QF	220V AC	18W		1.4kg

220V version is only available by special order.

## Dimensions (mm)



## Wiring Diagram

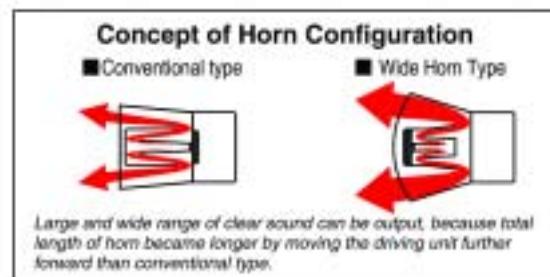


# ***EVW Series Recording and Playback—***

*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-53 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.



# PATLITE

# PVW

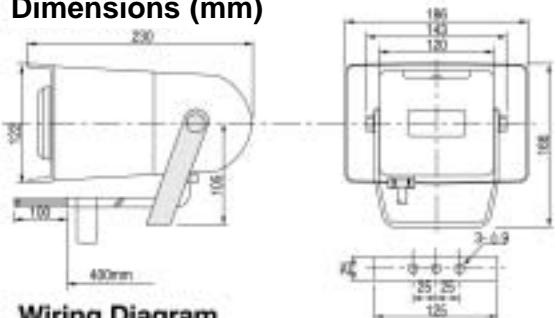
## Playback Only

### PVW-04 / 15 Voice Synthesizer

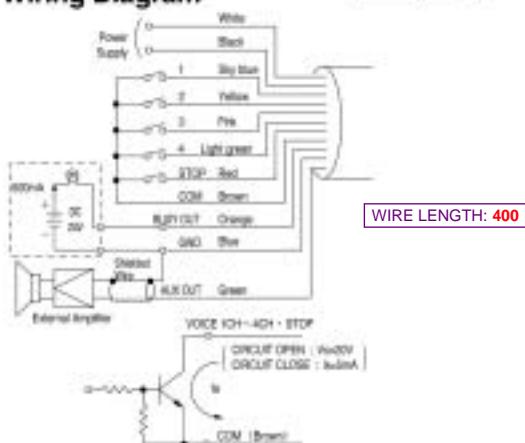
MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME	WEIGHT
PVW-04JF	12/24V AC/DC	12W		1.3kg
PVW-04DF	48V DC	10W		1.3kg
PVW-04KF	100V AC	18W	Approx. 105dB (at 1m)	1.4kg
PVW-04QF	220V AC	18W		1.4kg
PVW-15JF	12/24V AC/DC	12W		1.3kg
PVW-15DF	48V DC	10W	Approx. 105dB (at 1m)	1.3kg
PVW-15KF	100V AC	18W		1.4kg
PVW-15QF	220V AC	18W		1.4kg

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

#### Dimensions (mm)



#### Wiring Diagram



## 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.

## PATLITE

# EW/EWS

### Horn Style Alarm

**EW-KA / EWS-KA**

Alarm

**EW-L / EWS-L**

Chime

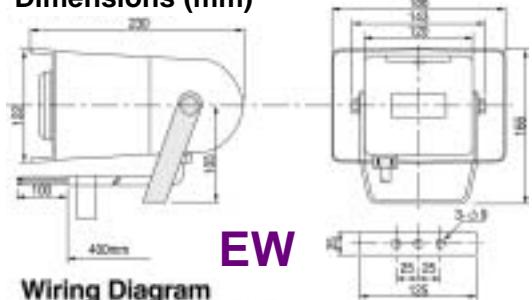
Choose from Sound Types: F, Q, S

**EW-M / EWS-M**

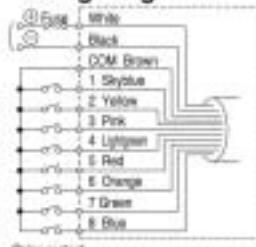
Melody

Choose from Sound Types: G, H, P

#### Dimensions (mm)


**EW**

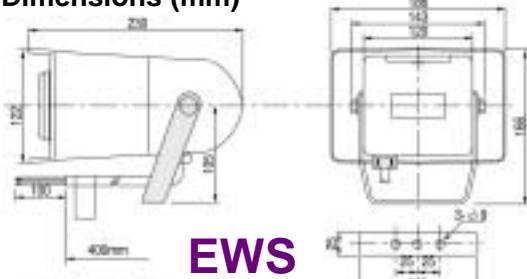
#### Wiring Diagram



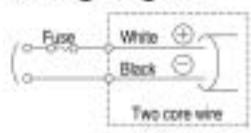
■ Fuse Capacity	
Voltage	Fuse
12V	1A
24V	0.5A
48V	0.3A
100V	0.3A
200V	0.15A

WIRE LENGTH: 400

#### Dimensions (mm)


**EWS**

#### Wiring Diagram



■ Fuse Capacity	
Voltage	Fuse
12V	1A
24V	0.5A
48V	0.3A
100V	0.3A
200V	0.15A

WIRE LENGTH: 400

 Sound selection is made by dip switch selection  
(Caution) polarity of power supply in case of DC.

## 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.

MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME	WEIGHT
EW/EWS-24M	12/24V AC/DC	8W		1.2kg
EW/EWS-48M	48V DC	10W		1.2kg
EWEWS-100M	100V AC	12W		1.4kg
EW/EWS-220M	220V AC	13W		1.4kg
EW/EWS-24L	12/24V AC/DC	8W	Max. 105dB (at 1m)	1.2kg
EW/EWS-48L	48V DC	10W		1.2kg
EW/EWS-100L	100V AC	12W		1.4kg
EW/EWS-200L	200V AC	13W		1.4kg
EW/EWS-24K	12/24V AC/DC	8W		1.2kg
EW/EWS-48K	48V DC	10W		1.2kg
EW/EWS-100K	100V AC	12W		1.4kg
EW/EWS-200K	200V AC	13W		1.4kg

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

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

# EB-K, EB-L EMB, ESB ETB-B

## Box Style Alarm

**EB-K** 8 Output      Alarm

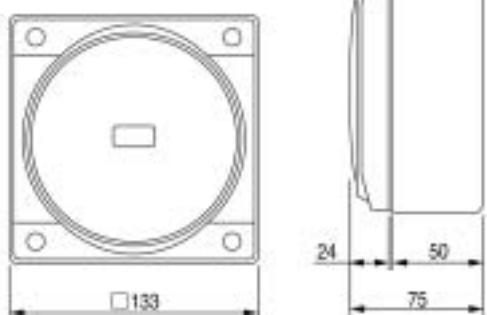
**EB-L** 8 Output      Chime  
Choose from Sound Types: F, Q, S

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

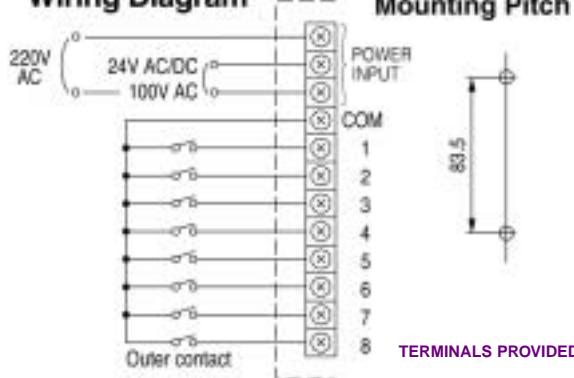
**ESB** 1 Output      Alarm

**ETB-B** 4 Output      Alarm

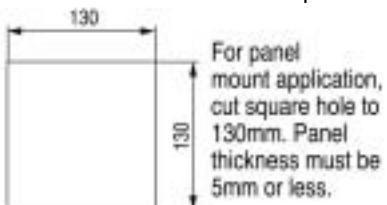
### Dimensions (mm)



### Wiring Diagram



ESB has 1 output.



## EB, 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.



### 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.

MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME	WEIGHT
EB-24KA	24V AC/DC	6W		0.7kg
EB-120KA	120V AC	7W	Max. 95dB/m	0.9kg
EB-24L	24V AC/DC	6W		0.7kg
EB-120L	120V AC	7W		0.9kg
EMB-24	24V AC/DC	6W	Max. 90dB/m	0.7kg
EMB-120	120V AC	7W	90dB/m	0.9kg
ESB-24P	24V AC/DC	4W	Max. 93dB/m	0.7kg
ESB-120P	120V AC	5W	93dB/m	0.9kg
ETB-24B	24V AC/DC	6W	Max. 95dB/m	0.7kg
ETB-120B	120V AC	7W	95dB/m	0.9kg

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

## BM

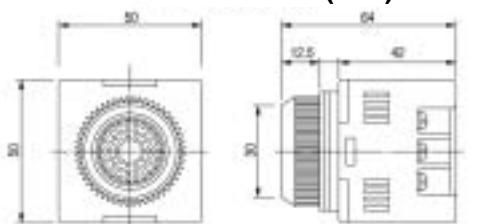
### Compact Panel Mount Alarm

BM

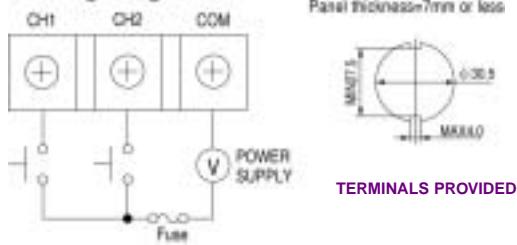
Signal Phone



Dimensions (mm)



Wiring Diagram



### 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-34

90 dB/m

Open-Collector

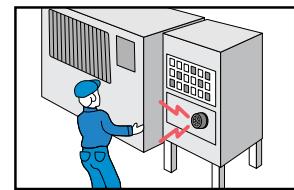
Pre-Assembled



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.

MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME
BM-202H	24V AC/DC	0.4W	85dB/m (Approx.)
BM-212H	120V AC	2.5W	90dB/m (Approx.)



## BA/BC

### Compact Panel Mount Alarm

BA-K

Alarm Four

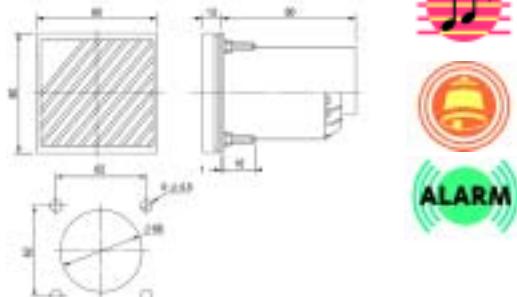
Choose from Sound Types: A, D

BC-L

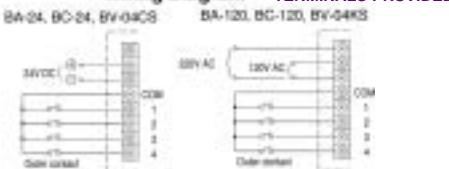
Chime Phone

Choose from Sound Types:  
F, G, H, J, L, P, Q, S, W

Dimensions (mm)



Wiring Diagram TERMINALS PROVIDED



### 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 dB/m

Open-Collector

Pre-Assembled



80mm square

- IP Rating: IP-65.
- 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.

MODEL	RATED VOLTAGE	POWER CONSUMPTION	VOLUME
BA-24K	24V DC	5W	Max. 85dB/m
BA-120K	120V AC	4.5W	Max. 85dB/m
BC-24L	24V DC	5W	Max. 85dB/m
BC-120L	120V DC	4.5W	Max. 85dB/m

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

## PATLITE



### Alarm with Rotating Light

#### RT-KA

Alarm  
Comes with 8 alarm sounds

#### RT-L

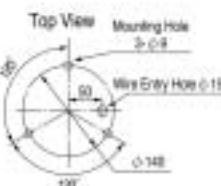
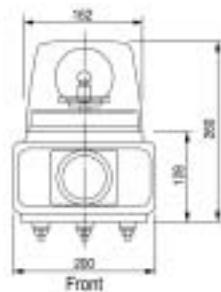
Chime: Comes with 6 melodies and 2 chimes  
Choose from Sound Types: F, Q, S

#### RT-VS

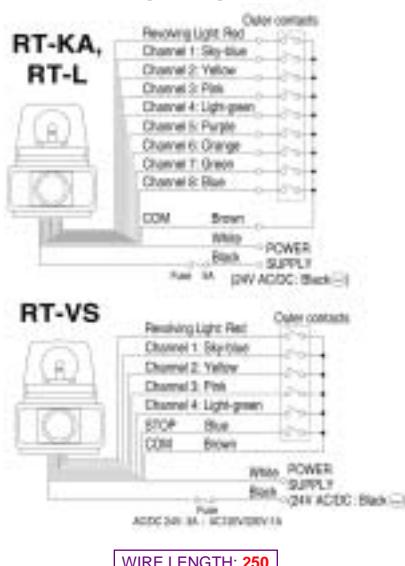
Voice Synthesizer  
Can replay 4 messages with 64 sec.  
of total program time

TYPE OF MODEL	MODEL	RATED VOLTAGE	BULB (G18BA15S)	VOLUME	WEIGHT
Voice Synthesizer	RT-24VS	24V AC/DC	24V20W	6 Max.	2.0kg
	RT-120VS	120V AC	12V15W	5	100dB/m 2.3kg
Chime Phone	RT-24L	24V AC/DC	24V20W	6 Max.	2.0kg
	RT-120L	120V AC	12V15W	5	105dB/m 2.3kg
Alarm Sound	RT-24KA	24V AC/DC	24V20W	6 Max.	2.0kg
	RT-120KA	120V AC	12V15W	5	105dB/m 2.3kg

### Dimensions (mm)



### Wiring Diagram



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

## RT Series Alarm with Rotating Light—

The RT Series is a large horn and rotating light combination for increased plant floor coverage.



### ø162mm Dome

- 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.

## PATLITE

# LGEH

### Horn/Signal Tower

#### 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

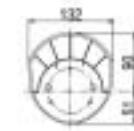
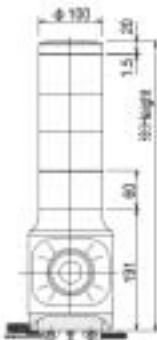
#### LGEH-FM

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

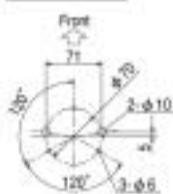
#### LGEH-FV

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

#### Dimensions (mm)



Height (mm):  
1 Light : 274  
2 Lights : 336  
3 Lights : 387  
4 Lights : 439



#### Wiring Diagram in Direct Power Connection

FM, FKA, FL type



FV type



Note: The product number for exactly either any of the dimensions are indicated in parentheses when FKA type, which has no numbers.

#### NPN transistor



WIRE LENGTH: 300

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

## LGEH Series Indicating Light w/Horn —

The LGEH Series is a large horn and signal tower combination that supplies greater sound and visibility.



LED



Type Light



ALARM



#### ø100mm

- Colors available: red, yellow, green, blue, clear.
- IP Rating: IP-53. ■ 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.

TYPE OF MODEL	MODEL	RATED VOLTAGE	LIGHT POWER CONSUMPTION
1 LIGHT	LGEH-102F	24V AC/DC	2W
	LGEH-112F	120V AC	3W
	LGEH-120F	220V AC	
2 LIGHTS	LGEH-202F	24V AC/DC	4W
	LGEH-212F	120V AC	6W
	LGEH-220F	220V AC	
3 LIGHTS	LGEH-302F	24V AC/DC	8W
	LGEH-312F	120V AC	9W
	LGEH-320F	220V AC	
4 LIGHTS	LGEH-402F	24V AC/DC	8W
	LGEH-412F	120V AC	
	LGEH-420F	220V AC	12W



## Alarm with Rotating Light

### KJT-KA

Alarm Eight

### KJT-L

Chime Phone

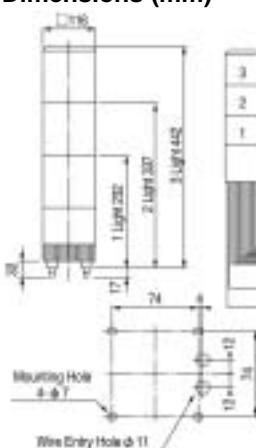
Choose from Sound Types: F, Q, S

TYPE OF MODEL	MODEL	STACKED LIGHT			RATED VOLTAGE	BULB (WATTAGE)	No.	VOLUME
		1 LIGHT	2 LIGHT	3 LIGHT				
Chime Phone	KJT-L	102	202	302	24V AC/DC	24V10W	10	Max.
		112	212	312	120V AC	12V5W	11	90dB/m
Alarm Eight	KJT-KA	102	202	302	24V AC/DC	24V10W	10	Max.
		112	212	312	120V AC	12V5W	11	90dB/m

Note: 100V AC, 220V AC versions available by special order.

	RATED VOLTAGE	1 LIGHT	2 LIGHT	3 LIGHT
WEIGHT	24V AC/DC	1.3kg	2.0kg	2.5kg
	120V AC	1.6kg	2.5kg	3.0kg

### Dimensions (mm)



### Wiring Diagram



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

## KJT Series Alarm with Rotating Light—

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



### 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.
- NPN open collector transistor compatible.
- KJT-KA has 8 distinctive alert sounds.
- KJT-L has 6 melodies and 2 chime sounds.
- Optional mounting bracket: SZ-008.

# 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)**

Model	ESB	ETB
Ch		
1	Stutter (1 sound)	Stutter
2		Chime
3		Beep
4		Yelp

Model	BA	
Ch	KA-Type	KD-Type
1	Beep	Rapid Hi-Lo
2	Stutter	Melody Chime
3	Bell	Synthesized Piano
4	Yelp	Synthesized Bell

Model	BT / EW / EWS / LGEH-F							
Ch	KA-Type	LF-Type	LQ-Type	LS-Type	MG-Type	MH-Type	MP-Type	
1	Beep	Fur Elise	Mary Had a Little Lamb	Amaryllis	Runner	Happy Birthday	She Wore a Yellow Ribbon	
2	Stutter	Maiden's Prayer	Camptown Races	Symphony No. 40	I Want to Take Care of You	Mickey Mouse Club March	My Darling Clementine	
3	Bell	Minuet	Cuckoo	Silent Lakeside	Listening to Olivia	It's a Small World	The Yellow Rose of Texas	
4	Yelp	Annie Laurie	Blacksmith in the Village	Mountain Musician	September	Forest Bear	Yankee Doodle	
5	Rapid Hi-Lo	London Bridge is Falling Down	On the Avignon Bridge	Romance De Amour	Saturday Lovers	Cha Cha Toy	When the Saints Go Marching In	
6	Melody Chime	Holdridia	Ob-La-Di, Ob-La-Da	Petrouchka	Autumn	Is There a Kid Like This?	Londonderry Air	
7	Synthesized Piano		Chime		Surf Heaven, Ski Heaven	Schubert's Lullaby	Hava Nagilah	
8	Synthesized Bell		Call Sign		Color / White Blend	Rudolf the Red-Nosed Reindeer	Jamaica Farewell	

Model	EB / KJT / RT				
Ch	KA-Type	LF-Type	LQ-Type	LS-Type	
1	Beep	Fur Elise	Mary Had a Little Lamb	Amaryllis	
2	Stutter	Maiden's Prayer	Camptown Races	Symphony No. 40	
3	Bell	Minuet	Cuckoo	Silent Lakeside	
4	Yelp	Annie Laurie	Blacksmith in the Village	Mountain Musician	
5	Rapid Hi-Lo	London Bridge is Falling Down	On the Avignon Bridge	Romance De Amour	
6	Melody Chime	Holdridia	Ob-La-Di, Ob-La-Da	Petrouchka	
7	Synthesized Piano		Chime		
8	Synthesized Bell		Call Sign		

Model	BC									
Ch	LF-Type	LG-Type	LH-Type	LJ-Type	LL-Type	LP-Type	LQ-Type	LS-Type	LW-Type	
1	Fur Elise	Romance De Amour	Minuet	Cuckoo	London Bridge is Falling Down	Silent Lakeside	Mary Had a Little Lamb	Amaryllis	On the Avignon Bridge	
2	Maiden's Prayer	Petrouchka	Annie Laurie	Blacksmith in the Village	Holdridia	Mountain Musician	Camptown Races	Symphony No. 40	Ob-La-Di, Ob-La-Da	
3					Chime					
4					Call Sign					

Model	EMB			
Ch	G-Type		H-Type	P-Type
1	Runner		Happy Birthday	She Wore a Yellow Ribbon
2	I Want to Take Care of You		Mickey Mouse Club March	My Darling Clementine
3	Listening to Olivia		It's a Small World	The Yellow Rose of Texas
4	September		Forest Bear	Yankee Doodle
5	Saturday Lovers		Cha Cha Toy	When the Saints Go Marching In
6	Autumn		Is There a Kid Like This?	Londonderry Air
7	Surf Heaven, Ski Heaven		Schubert's Lullaby	Hava Nagilah
8	Color / White Blend		Rudolf the Red-Nosed Reindeer	Jamaica Farewell

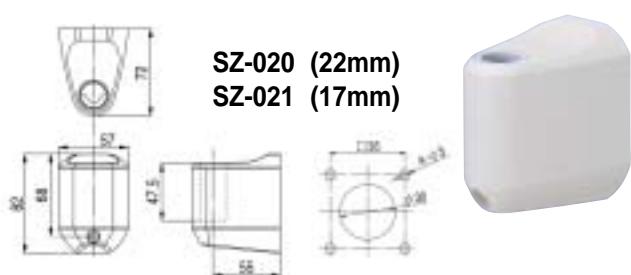
# Optional Parts

## Mounting Poles & Brackets (mm)



PART No.	MODEL	PART No.	MODEL	PART No.	MODEL	PART No.	MODEL
SZ-70L	LME-W	SZ-60L	LEL	SZ-50L	LHE-A, LU7	SZ-40L	KUS
SZ-80L	LCE-W	SZ-60T	LES-AW	SZ-50T		SZ-40T	SZ-30T

## Mounting Brackets (mm)



## Rubber Gaskets (mm)



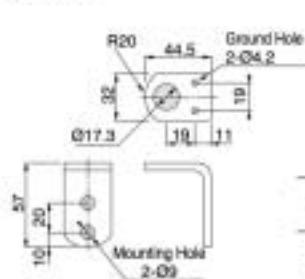
MODEL	PRODUCT
SZ-200A	KX-T, RHB-A, SKH-EA
SZ-210	PES, PS, PSF, RU



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)

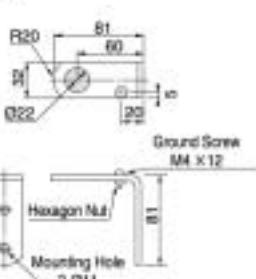
SZ-012



(Pole is not included)

MODEL	PRODUCT
SZ-012	LCE, LE-P, LES-A

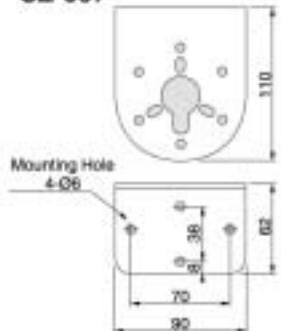
SZ-013



(Pole is not included)

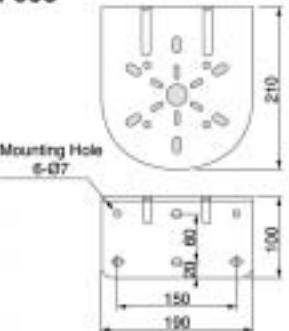
MODEL	PRODUCT
SZ-013	LME-L, ME, MEL, MES, MT, RUP, SE-T, ST, STPB

SZ-007



MODEL	PRODUCT
SZ-007	KJS, KUS, KX, LGE, LHE-A, LME, LU PES, PS, RH-A, RU, SKH-A, SKH-EA

SZ-008



## Replacement Bulbs

TYPE	BULB No.	WATTAGE	PART No.
 G18/BA15S	5	12V15W	LMP-0071
	6	24V20W	LMP-0072
	9	12V10W	LMP-0099
	10	24V10W	LMP-0100
	11	12V5W	LMP-0093
 T20/E12	7	12V10W	LMP-0097
	8	12V5W	LMP-0091
	12	30V10W	LMP-0098
	13	24V5W	LMP-0060
	14	110V10W	LMP-0094
	15	140V10W	LMP-0086
	16	140V5W	LMP-0061
	17	110V15W	LMP-0119
	18	220V15W	LMP-0120
	19	240V10W	LMP-0053
 G14/BA9S	20	12V6W	LMP-0116
	21	24V6W	LMP-0117
 T10/E10	22	140V3W	LMP-0121
	23	140V5W	LMP-0125
	24	110V5W	LMP-0110
	26	240V5W	LMP-0112
	27	12V0.11A	LMP-0113
	28	24V0.11A	LMP-0106
	39	28V11W	LMP-0228
 T20/BA15D	40	110V12W	LMP-0211
	41	250V11W	LMP-0225
	49	140V13W	LMP-0214

TYPE	BULB No.	WATTAGE	PART No.
 T20/BA15D	50	28V20W	LMP-0328
	52	140V20W	LMP-0314
	53	250V20W	LMP-0325
 RP35/BA15S	56	12V35W	LMP-0004
	57	24V35W	LMP-0005
 RP35/BA15D	60	120V40W	LMP-0092
	61	240V30W	LMP-0052
	62	48V35W	LMP-0008
	63	220V30W	LMP-0007
 T10/BA15S	70	12V55W	LMP-0079
	71	24V70W	LMP-0080

## LED-Lamps

TYPE	COLOR	VOLTAGE	PART NO.
 ST/STPB CS  E12	RED	24V	DE24E-R
	YELLOW	24V	DE24E-Y
	GREEN	24V	DE24E-G
	BLUE	24V	DE24E-B
	CLEAR	24V	DE24E-C
 LGSM  BA15D	RED	24V	DE24D-R
	YELLOW	24V	DE24D-Y
	GREEN	24V	DE24D-G
	BLUE	24V	DE24D-B
	CLEAR	24V	DE24D-C



**Manufacturing Plant, Japan**



**Head Office, Japan**



**Technical Center, Japan**



**PATLITE (U.S.A.) Corp., California**



**PATLITE (U.S.A.) Corp., Illinois**

## **PATLITE (U.S.A.) Corporation:**

Website: [www.patlite.com](http://www.patlite.com)

E-mail: [sales@patlite.com](mailto:sales@patlite.com)

3860 Del Amo Blvd., Suite 401, Torrance, CA 90503

Tel: (310) 214-3222 • Fax: (310) 214-9999

500 East Remington Rd., Suite 107, Schaumburg, IL 60173

Tel: (847) 781-6999 • Fax: (847) 781-6996

### **PATLITE Corporation (Japan):**

Website: [www.patlite.co.jp/int/](http://www.patlite.co.jp/int/)

2-58 Wakabayashi-cho, Yao-Shi, Osaka 581-0038 Japan

Tel: (81) 729-48-3211 • Fax: (81) 729-48-5533

Specifications are subject to change without notice.

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# **PATLITE**