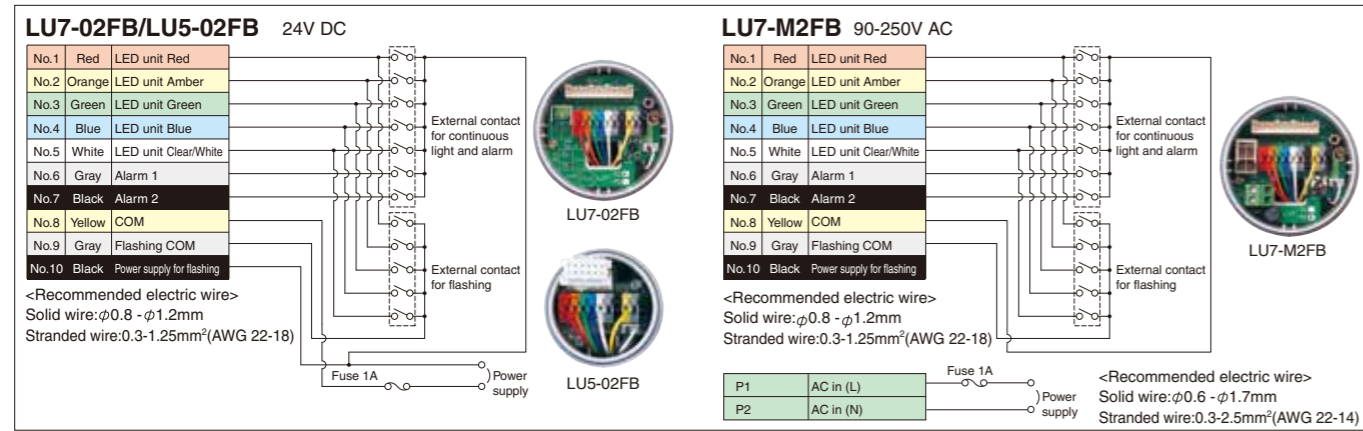


## Wiring example for Base unit



### 【External contact capacity】

| Voltage specs |                     | 24V DC   | 90~250V AC   |
|---------------|---------------------|--|--|
| LED unit      | Current consumption | Red · Amber : 52mA Green · Blue · Clear/White : 42mA |  |
| [1-Light]     | Contact capacity    | $I_s \geq 100\text{mA}$ , $V_s \geq 35\text{V AC}$   |  |
| Alarm         | Current consumption | 50mA   |  |
|               | Inrush current      | 100mA  |  |
|               | Contact capacity    | $I_s \geq 100\text{mA}$ , $V_s \geq 35\text{V AC}$   |  |
| Power supply  | Current consumption | 360mA  | 40mA (250V) ~ 110mA (90V)                          |
|               | Contact capacity    | $I_s \geq 500\text{mA}$<br>$V_s \geq 35\text{V AC}$  | 9A (90V) ~ 25A (250V)<br>$V_s \geq 250\text{V AC}$ |

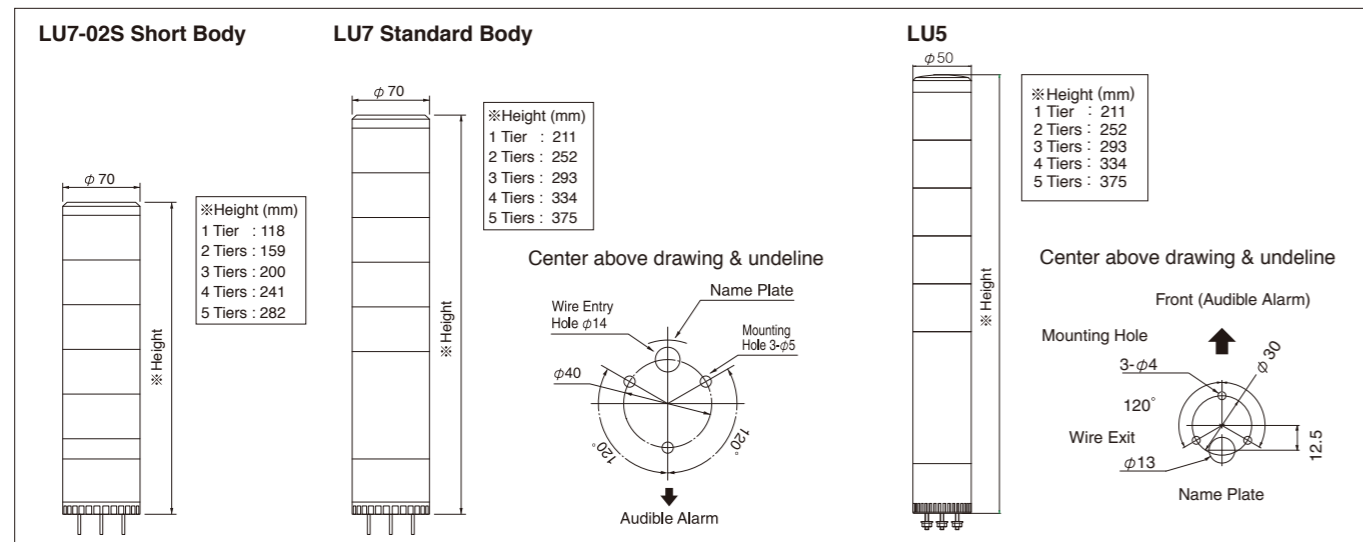
※  $I_s$  : Current capacity  $V_s$  : Withstand voltage

### 【External contact fuse】

| Voltage   | Amperage rating of fuse |
|-----------|-------------------------|
| All model | 250V 1A                 |

※ Use a fuse conforming to the rated current of the machine on which you install product.  
(Example: UL class J type fuse)

## Dimensions



## PATLITE Corporation

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**PATLITE (U.S.A.) Corporation**  
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**PATLITE (SINGAPORE) PTE LTD**  
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**PATLITE (CHINA) Corporation**  
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**PATLITE KOREA CO., LTD.**  
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**PATLITE TAIWAN CO., LTD.**  
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ISO14001:2004 Certified  
Headquarters/Sanda Plant/Techno Center

**CAUTION** To ensure correct use of these products, read the Instruction Manual prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.

<http://www.patlite.com> E-mail: [overseas@patlite.co.jp](mailto:overseas@patlite.co.jp)



For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products.



1211A 0809J(J)/J(TS)A

# PATLITE®

New Frontiers for Safety, Security and Comfort.

## Modular LED Signal Tower LU5/LU7 Series



LU5 series  
50mm dia.

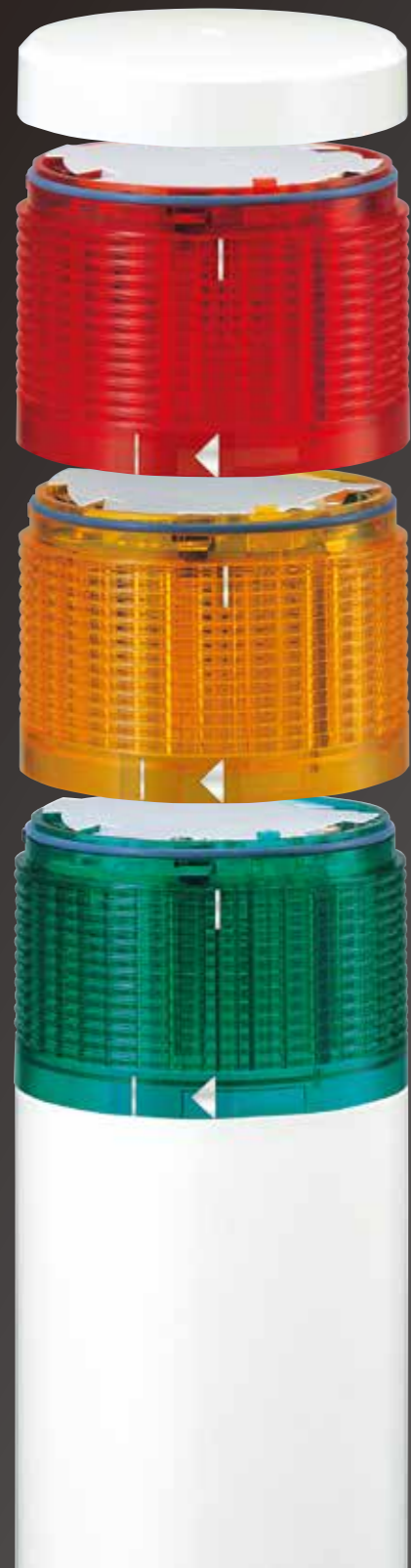
LU7 series  
70mm dia.

PATLITE Corporation

www.patlite.com



**PATLITE's LU5 & LU7 Series signal towers deliver the advantages of superior LED technology, innovative design, and the convenience of modular assembly with only 9 basic modular components to meet just about every indicating need.**



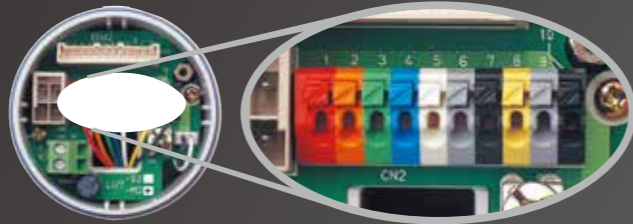
**Ultra Bright LEDs combined with an Innovative Prism Lens Design**

Allows the light emitted from the signal tower to be seen from greater distances. This also allows for use of a smaller diameter light, reducing the cost of the light tower.



**Color-coordinated & Spring-loaded Terminal Block**

Makes wiring easy and more reliable compared to screw-type connections. Each color corresponds to the color of the LED module to be used.



Wiring Terminals

**Two user-selectable Alarms Integrated in the Base Module**

Allows sound to enhance the critical nature of a visual signal, bringing more attention to certain conditions. Also, since the modules are built into the base, up to 5 LED modules can be used on the light tower.



**Delivers Sounds up to 90dB at 1 m.**

Alarm can be easily heard over ambient noise.

**Modular Design**

Makes it easy to configure and assemble a light tower. Modules can be put away before shipping the machine, reducing shipping and crate costs.



Modular Construction

**O-rings**

Seal out liquids so that the tower achieves an IP65 rating allowing the tower to be used in wet conditions.



IP65 Protection

**IP65 & IP66 with Optional Cable Gland**

The O-rings seal the tower from liquids so that an IP65 rating can be achieved to allow the tower to be used in wet environments. Adding a Cable Gland (user supplied) the tower's IP rating is increased to IP66.



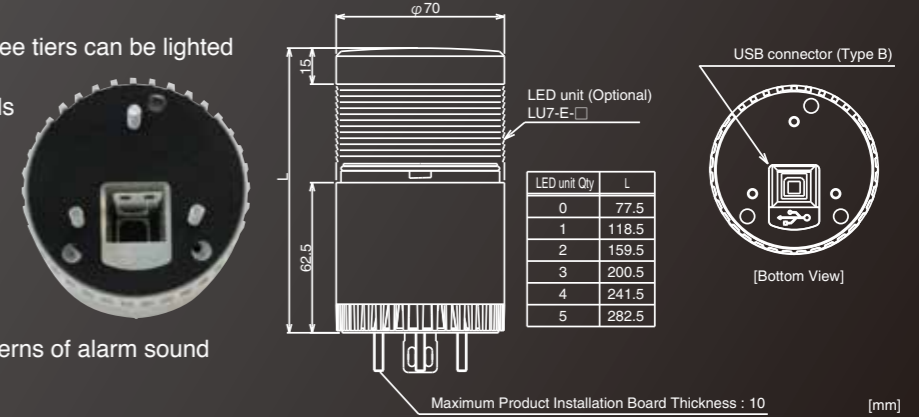
**LU7 Series** 70mm diameter  
Modular LED Signal Tower



**USB Base Module**

**USB powered Base Unit with Integrated Alarms (LU7-02S-USB)**

- Power over USB - no power supply needed
- DLL Operable
- Supports a maximum of five tiers where three tiers can be lighted simultaneously
- Complies with CE/RoHS/FCC/KC Standards
- IP65 Protection rating
- Adjustable Alarm Frequency
- 2 levels of adjustable alarm sound
- Sound pressure is a maximum of 80dB
- Control Program downloadable from PATLITE website
- Four kind of flashing patterns
- 13 variations of alarm frequency and 5 patterns of alarm sound
- Strip to secure USB cable included
- Supported OS: Windows 7, Windows 8



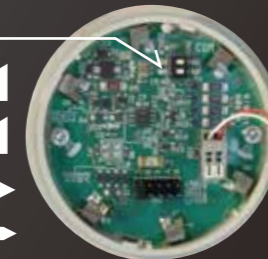
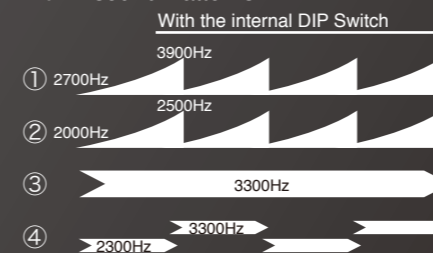
**NEW**

**Omni-directional Sound Module**

**Loud, multi-sound Module (LU7-LB)**

- Loud sound pressure up to 100dB (±5dB)
- Four kinds of alarm sounds can be selected with a DIP switch for a wider alarm sound range
- IP40 Protection rating
- Complies with CE/RoHS/FCC Standards
- Can be used with LU7-02(FB), LU7-M2(FB), and LU7-02SB
- Alarm can be set to sound with a specific LED module for simultaneous control

4 Alarm sound Patterns



**NEW**

**Stackable audible alarm**

- Can be used with LU7-02(FB), LU7-M2(FB), and LU7-02S(B).
- Easily mounted at the top of the light stack.

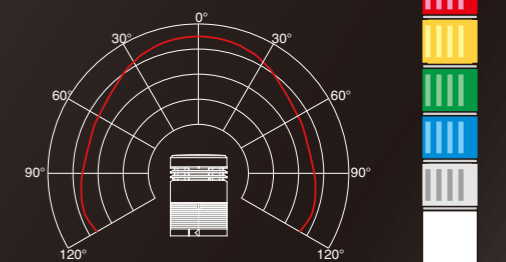


Diagram 1. Sound Direction



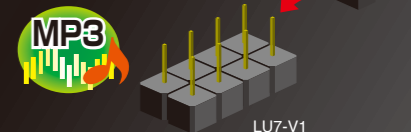
Head cover is supplied with the base unit.

**Omni-directional MP3 Smart Alert Module (LU7-V1)**

- Volume adjustable from 9dB to 80dB at 1m (depends on type of sound or message)
- High quality MP3 supported voice and sound module replays up to 4 alarms or messages with 32 seconds of total program time
- Playback sound selected by the position of internal jumper pin
- MP3 data is recorded before shipment of order
- CE compliant

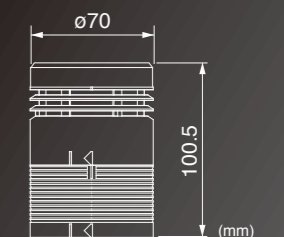
**Selectable playback sound**

- The jumper position determines the sound



LU7-V1

| Model  | Type            | Rated Voltage | Rated Current Consumption | Power Consumption | Mass |
|--------|-----------------|---------------|---------------------------|-------------------|------|
| LU7-LB | Alarm Sound     | 24V DC        | 150mA                     | -                 | 140g |
| LU7-V1 | MP3 Smart Alert | 24V DC        | -                         | 3.5W              | 170g |





# LU7 Series

70mm diameter

Modular LED Signal Tower



US LISTED

IP65 Environment Protection

## Voice and Sound Module



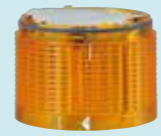
| Model                     | NEW LU7-LB  | NEW LU7-V1      |
|---------------------------|-------------|-----------------|
| Type                      | Alarm Sound | MP3 Smart Alert |
| Rated Voltage             | DC 24V      | DC 24V          |
| Rated Current Consumption | 150mA       | -               |
| Power Consumption         | -           | 3.5W            |
| Mass (±10%)               | 140g        | 170g            |

## LED Units

| Model                       | LU7-E-R         | LU7-E-Y | LU7-E-G   | LU7-E-B | LU7-E-C |
|-----------------------------|-----------------|---------|-----------|---------|---------|
| Unit Color                  | Red             | Yellow  | Green     | Blue    | White   |
| Rated Voltage               | DC 24V          |         |           |         |         |
| Operating Voltage Range     | DC 21.6 ~ 26.4V |         |           |         |         |
| Current/Power Consumption   | 52mA/1.25W      |         | 42mA/1.0W |         |         |
| Operating Temperature Range | -30°C ~ +60°C   |         |           |         |         |
| Mass (±10%)                 | 60g             |         |           |         |         |



LU7-E-R LED unit RED



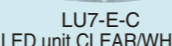
LU7-E-Y LED unit AMBER



LU7-E-G LED unit GREEN



LU7-E-B LED unit BLUE



LU7-E-C LED unit CLEAR/WHITE

## LED Strobe Module

| Model             | LU7-XE-R | LU7-XE-Y | LU7-XE-G | LU7-XE-B | LU7-XE-C |
|-------------------|----------|----------|----------|----------|----------|
| Unit Color        | Red      | Yellow   | Green    | Blue     | White    |
| Rated Voltage     | DC 24V   |          |          |          |          |
| Power Consumption | 290mA    | 290mA    | 140mA    | 270mA    | 280mA    |
| Mass (±10%)       | 70g      |          |          |          |          |

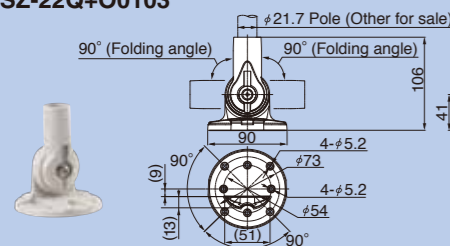
## BASE Units

| Model                       | NEW LU7-02S   | NEW LU7-02                                     | NEW LU7-02SB | NEW LU7-02FB         | NEW LU7-02S-USB       | LU7-M2   | LU7-M2FB  |
|-----------------------------|---|--|--------------|----------------------|-----------------------|--|-----------|
| Color                       | White   | White  | White        | White                | White                 | Black  | Black     |
| Standard Body/Short Body    | Short   | Standard                                       | Short        | Standard             | Short                 | Standard                                       | Standard  |
| Rated Voltage               | DC 24V  |  |              |                      | DC 5V (USB bus power) | AC 100~240V (50/60Hz)                          |           |
| Operating Voltage Range     | DC 21.6 ~ 26.4V   |  |              |                      | DC 4.75 ~ 5.25V※      | AC 90~250V (50/60Hz)                           |           |
| Alarm                       | -   | *Alarm 1                                       | *Alarm 2     | 5 Patterns           | -                     | *Alarm 1                                       | *Alarm 2  |
| Current Consumption         | -   | 50±10mA  | 24±10mA      | Max 500mA            | -                     | 50±10mA  | 24±10mA   |
| Power Consumption           | -   | 1.2±0.25W                                      | 0.58±0.25W   | -                    | -                     | 1.8±0.25W                                      | 1.3±0.25W |
| Sound Level                 | -   | Max:90±5dB (at 1m)<br>Min:70dB or Less (at 1m) |              | 80±5dB (at 1m)       | -                     | Max:90±5dB (at 1m)<br>Min:70dB or Less (at 1m) |           |
| Flashing Cycle              | -   | 60±12 flashes per minute                       |              |                      |                       |  |           |
| Operating Temperature Range | -30°C ~ +60°C   |  |              | -20°C ~ +60°C        |                       | -25°C ~ +55°C                                  |           |
| Mounting Direction          | Upright, Indoor only  |  |              | Upright, Indoor only |                       | Upright, Indoor only                           |           |
| Protection Rating           | IP65 (IP66 with Cable Gland supplied by user) ※Excludes LU7-USB |  |              |                      |                       |  |           |
| Mass (±10%)                 | 150g  | 250g   | 250g         | 280g                 | 160g                  | 310g   | 340g      |
| Open Collector Type         | PNP/NPN   |  |              |                      |                       |  | NPN       |

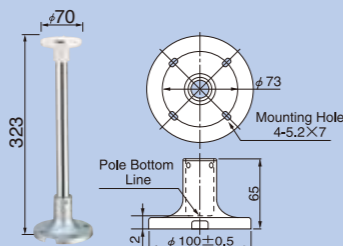
※ Based on USB 2.0 Standard

## Pre-assembled

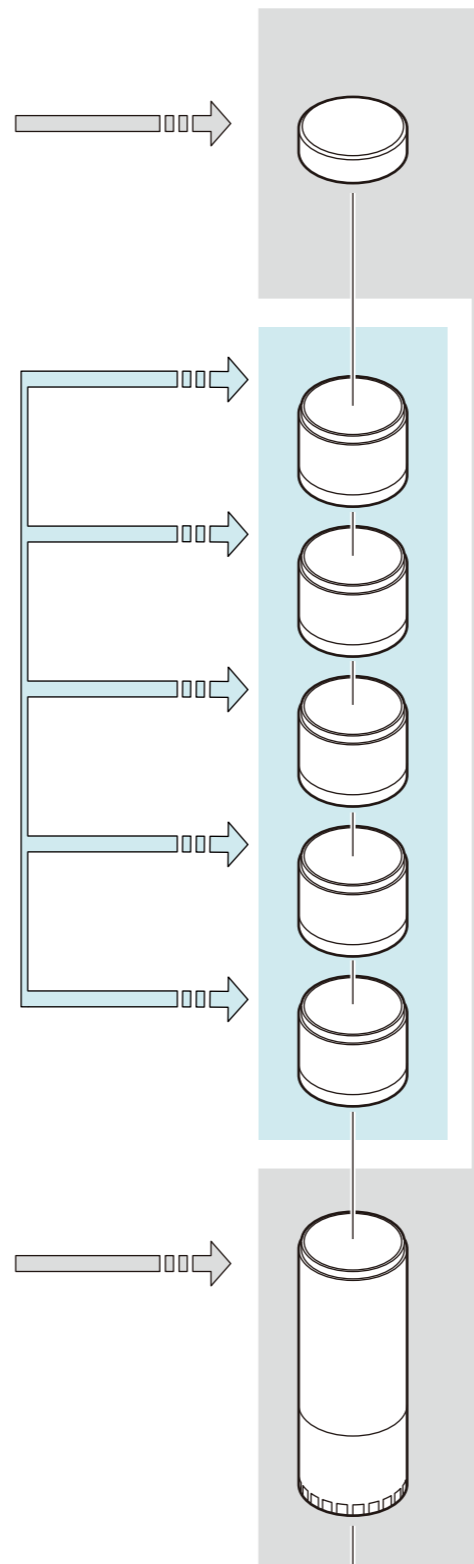
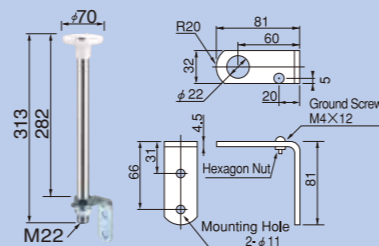
SZ-22Q+O0103



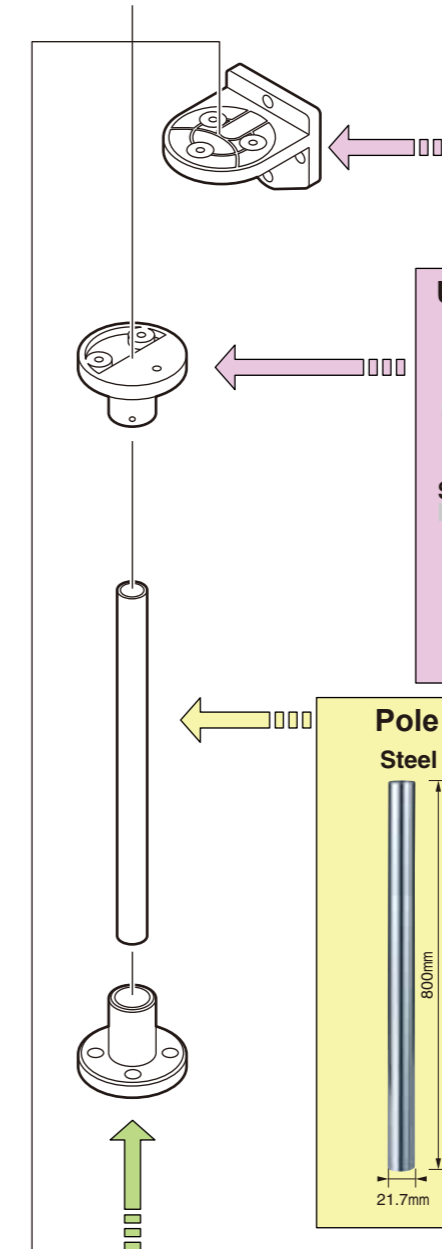
SZ-50T



SZ-50L



## Optional Parts



### Wall Mount Bracket

SZ-018U Silver Color  
SZ-018 Ivory White  
SZ-018K Black

### Upper Bracket (For φ21.7mm Pole)

SZ-50-U Ivory White  
SZ-50-U-U Silver Color  
SZ-50K-U Black  
SZ-50NPT (For 1/2" NPT Pole)

### Pole

**Steel Pole**  
800mm : POLE-800S21  
300mm : POLE-300S21  
100mm : POLE-100S21

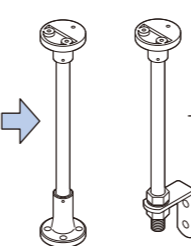
**Aluminum Pole**  
800mm : POLE-800A21  
800mm : POLE-800A21K  
300mm : POLE-300A21  
300mm : POLE-300A21K  
100mm : POLE-100A21  
100mm : POLE-100A21K

### Mounting Bracket

SZ-016A  
SZ-016KA+FO030 (For φ21.7mm Pole)  
SZ-70-B (For φ21.7mm Aluminum Pole Only)  
SZ-020 (For φ21.7mm Pole)  
SZ-017 (For φ21.7mm Pole)

### Wall Mount Bracket

## Optional Parts



# LU5 Series

50mm diameter

Modular LED Signal Tower

## LED Units

| Model                       | LU5-E-R         | LU5-E-Y | LU5-E-G   | LU5-E-B | LU5-E-C |
|-----------------------------|-----------------|---------|-----------|---------|---------|
| Unit Color                  |                 |         |           |         |         |
| Rated Voltage               | DC 24V          |         |           |         |         |
| Operating Voltage Range     | DC 21.6 ~ 26.4V |         |           |         |         |
| Current/Power Consumption   | 52mA/1.25W      |         | 42mA/1.0W |         |         |
| Operating Temperature Range | -30°C ~ +60°C   |         |           |         |         |
| Mass (±10%)                 | 44g             |         |           |         |         |

RED AMBER GREEN BLUE CLEAR/WHITE



LU5-E-R  
LED unit RED



LU5-E-Y  
LED unit AMBER



LU5-E-G  
LED unit GREEN



LU5-E-B  
LED unit BLUE



LU5-E-C  
LED unit CLEAR/WHITE

## BASE Units

| Model                       | LU5-02                    | LU5-02FB                |
|-----------------------------|---------------------------|-------------------------|
| Color                       |                           |                         |
| Body Style                  | Standard                  |                         |
| Rated Voltage               | DC 24V                    |                         |
| Operating Voltage Range     | DC 21.6 ~ 26.4V           |                         |
| Alarm                       |                           | *Alarm 1    **Alarm 2   |
| Current Consumption         |                           | 50±10mA    24±10mA      |
| Power Consumption           |                           | 1.2±0.25W    0.58±0.25W |
| Sound Level                 | Max: 85±5dB (at 1m)       |                         |
| Flashing Cycle              | 60±12 flashes per minutes |                         |
| Operating Temperature Range | -30°C ~ +60°C             |                         |
| Mounting Direction          | Upright, indoor only      |                         |
| Protection Rating           | IP65                      |                         |
| Mass (±10%)                 | 182g                      | 200g                    |
| Open Collector              | PNP/NPN                   |                         |

\* Alarm 1 : Continuous Sound    \*\*Alarm 2 : Intermittent Sound

### Unit Color Variation

Ivory White    Silver    Black



LU5-02  
LU5-02FB



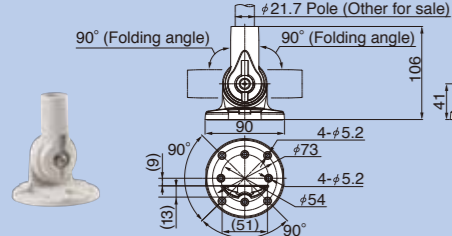
LU5-02U  
LU5-02UFB



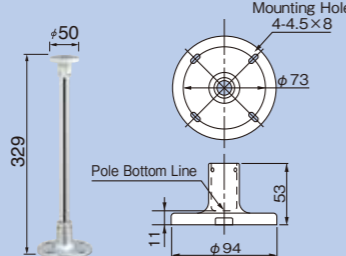
LU5-02+FB200  
LU5-02FB+FB200

## Pre-assembled

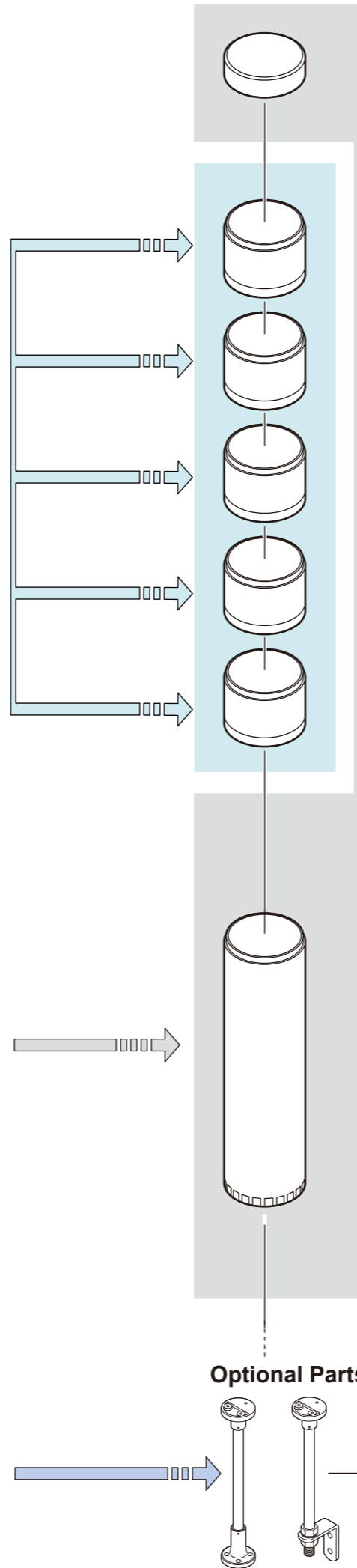
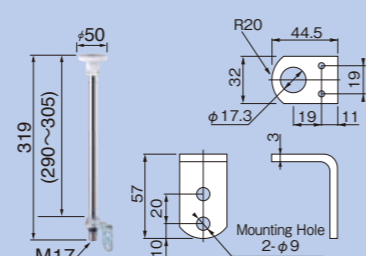
SZ-22Q+O0103



SZ-60T



SZ-60L



## Optional Parts

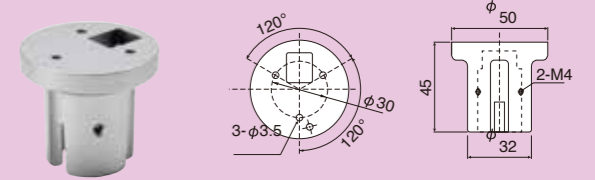


US LISTED

IP65 Environment Protection

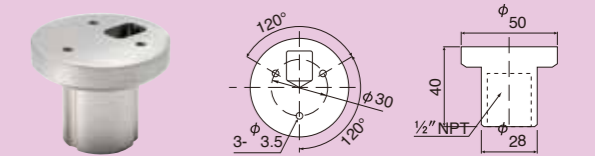
### Upper Bracket

SZ-60-U (For  $\phi 21.7$ mm Pole)



### Upper Bracket

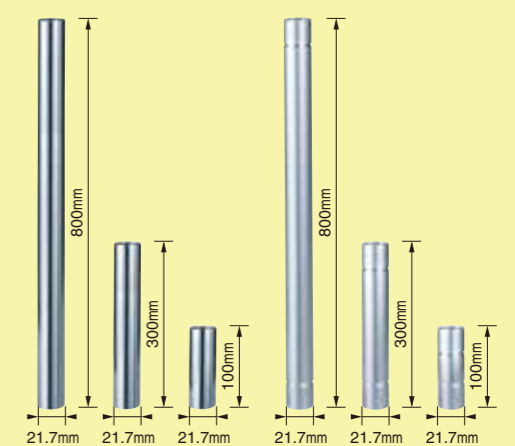
SZ-60NPT (For  $\frac{1}{2}$ " NPT Pole)



### Pole

Steel Pole

Aluminum Pole



800mm : POLE-800S21    800mm : POLE-800A21  
300mm : POLE-300S21    300mm : POLE-300A21  
100mm : POLE-100S21    100mm : POLE-100A21

### Mounting Bracket

SZ-016A (For  $\phi 21.7$ mm Pole)



SZ-70-B (For  $\phi 21.7$ mm Aluminum Pole Only)

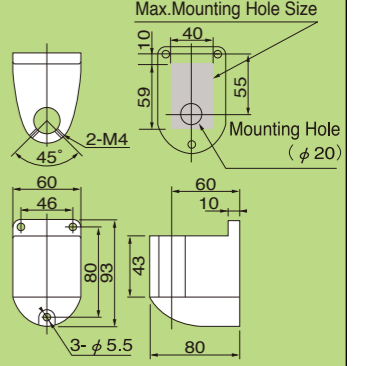
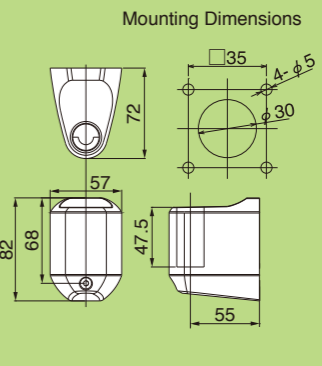
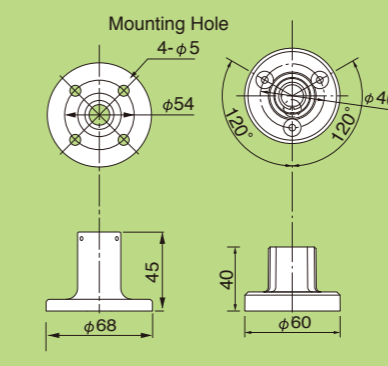


### Wall Mount Bracket

SZ-020 (For  $\phi 21.7$ mm Pole)



SZ-017 (For  $\phi 21.7$ mm Pole)



## Optional Parts

