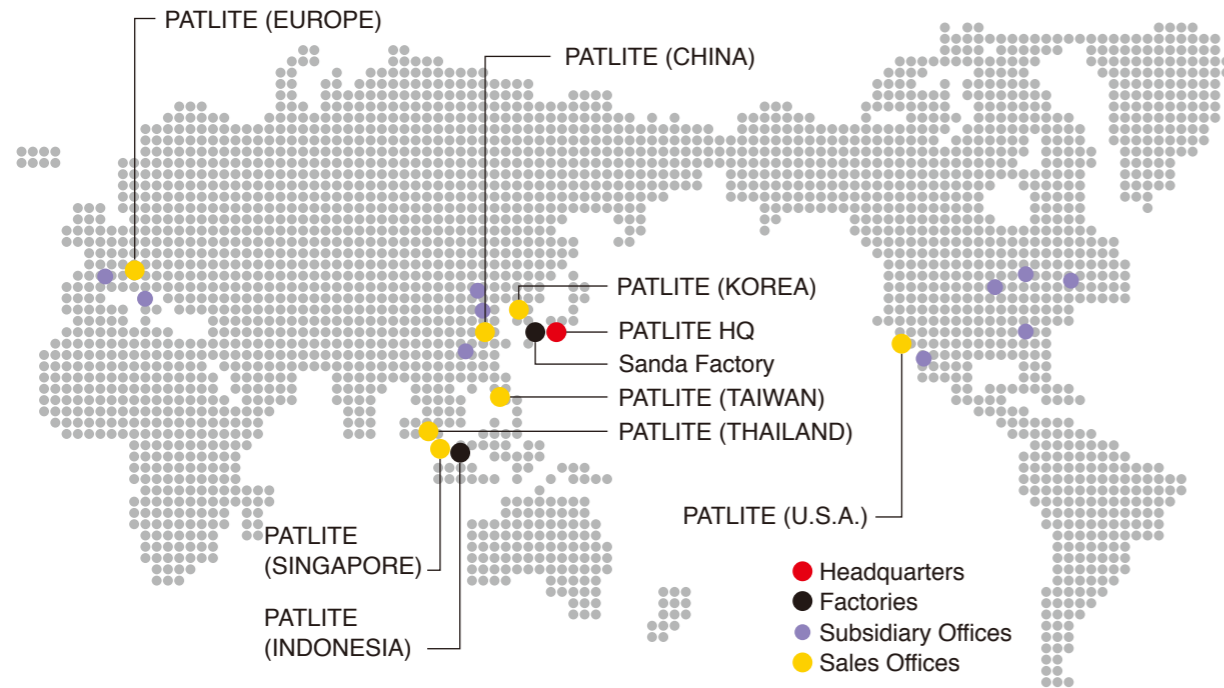


As a global company, we offer our products and support worldwide.

The LR Series conforms to international standards. The PATLITE group has built a global sales network to effectively provide goods and services to customers anywhere.



PATLITE[®]
New Frontiers in Safety, Security and Comfort.

Signal Tower
LR Series



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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.



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

<http://www.patlite.com>

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0-AF08A EN 1610 A



NEMA Type 4X, 13 360° Buzzer Easy-build

www.patlite.com

**2 year
Warranty**

Signal Tower

LR Series

Modular LED Signal Tower

- φ40mm
LR4
- φ50mm
LR5
- φ60mm
LR6
- φ70mm
LR7



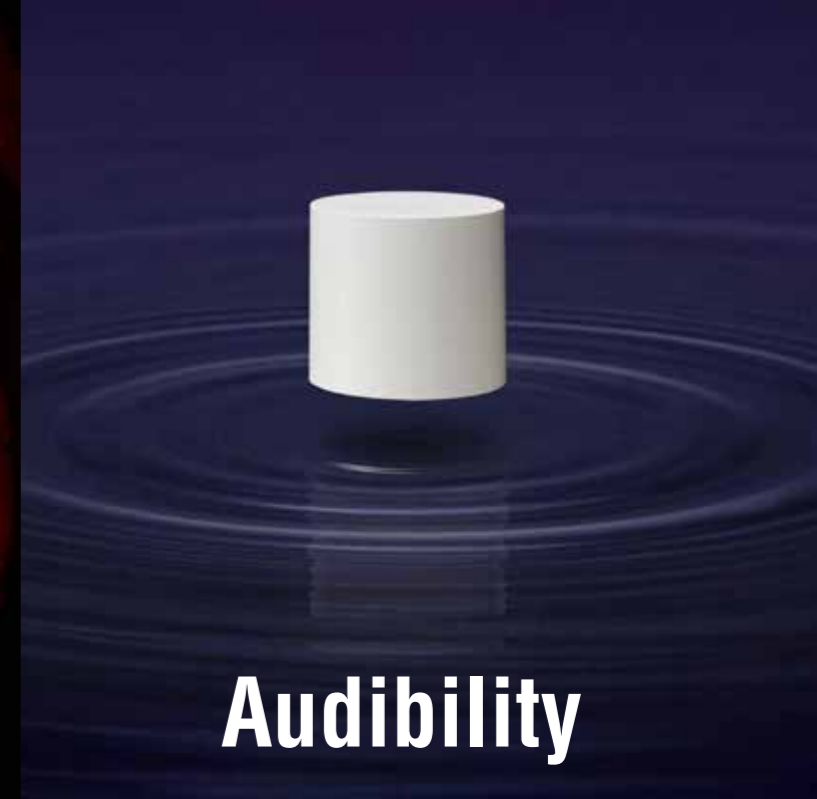
Modular Components



Optional Parts



Visibility



Audibility



Simplicity



Durability

Index

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Configurator

Scan the QR code to build an LR model



http://www.patlite.com/LR_config/

Visibility

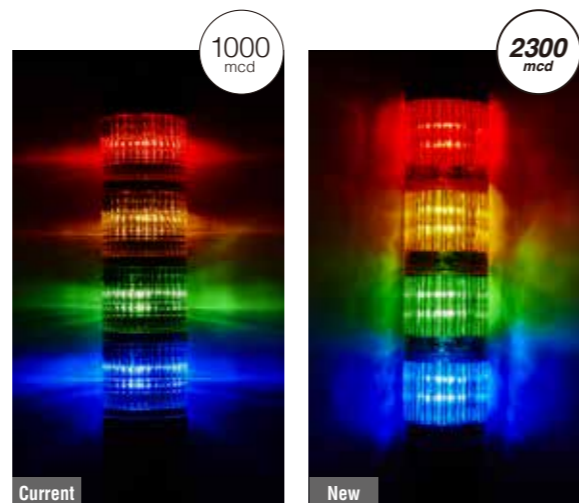
Exceptional Light Brilliance

With a new re-designed lens and improved light module construction, the LR series provides a brilliant, even light for visibility at further distances.



A uniform 360° Light-Emitting Design

The new LED color module features a new, unique interior lens construction that achieves a fuller, more uniform 360° degree light output. Light color is vibrant with more emission area for reliable indication from further distances.



Current LCE-A Series (φ40) New LR4 Series (φ40)

More than Twice the Light Output*

The LR Series lens distributes light more efficiently, increasing luminous intensity by more than double that of our current models.

* Based on the φ40 Red LED Model

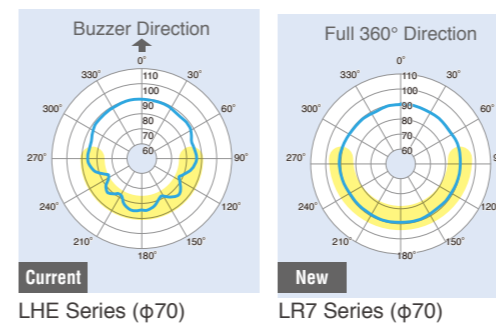
Audibility

No Holes, No Compromises

A re-engineered, completely enclosed sound module maintains substantial water and dust protection while producing loud, omnidirectional sound.

Unique Method of Fully Enclosed Sound Module

Inspired by a drum percussion instrument, the fully enclosed sound module is able to more efficiently vibrate sound waves, producing even 360° omnidirectional sound resonance. Resistance to water and dust is also increased.



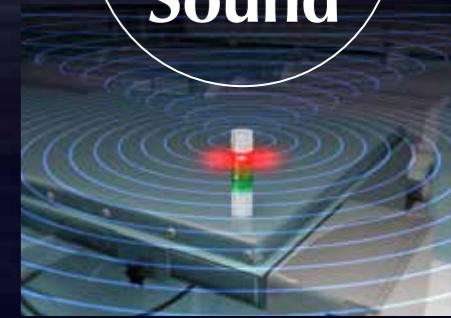
Maximum 90dB* output

The fully enclosed sound module structure produces more efficient sound, up to 90dB, at 1 meter.

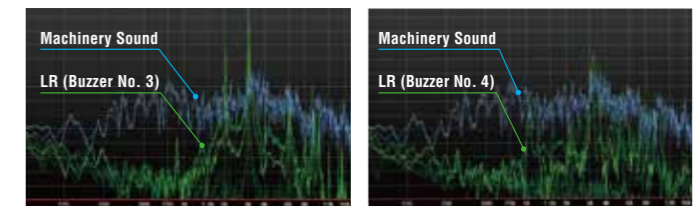
*LR7 buzzer No.4 (Sweep tone)



360°
Sound



IP65 (IEC 60524) / NEMA TYPE 4X,13



(Buzzer No.3) Rapid Hi-low Sound
2016Hz/3012Hz

(Buzzer No.4) Sweep Sound
1000Hz - 4032Hz (changing)

New Sounds Heard Above the Noise

Four buzzer sounds* are built in. The two new buzzer sounds are designed at a higher variable frequency to be heard above the noise of surrounding machinery. Alternatively, a sound reduction function of approx. -10dB is included to suit the environment.

* Four Buzzer Sounds

- No.1 Rapid Intermittent sound
- No.2 Continuous sound
- No.3 Rapid Hi-low
- No.4 Sweep sound



Simplicity

Convenient Modular Assembly

Simple "Twist and Lock" system makes it easy to customize and reconfigure light and sound modules.

Durability

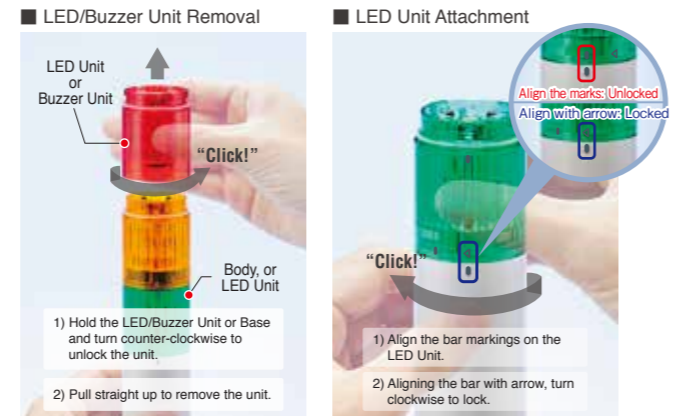
Rugged Never Looked Better

A sleek, smooth form factor and an enhanced body construction, makes the LR well-suited for harsher environments.



Modular System Design

The modular LED unit system makes reorganizing the color configuration easy. Furthermore, if an LED light module ever becomes damaged, ordering and replacing modules are easier than ever.



Reorganizing modules is effortless

Traditional stack lights typically require additional threaded shafts or tools to reconfigure light modules. With the LR Series, color reorganization, changing the number of light tiers and/or adding a sound module is easier than ever.



Smooth Surface

The LED light buzzer modules flushes together, creating a smooth surface for improved water run off and easy cleaning.



Environmental Performance

Built rugged with a water and dust resistant IP65 housing. IP65 / NEMA Type 4X, 13 withstands various environmental conditions, such as water and dust.



Upgraded Materials

All materials used were upgraded from previous models. Changing the base from ABS to Polycarbonate, and O-rings to silicone resin result in a more lightweight, shock resistant product.



Signal Tower

LR Series Pre-assembled Models

φ40mm Model Code

(Ex.) LR4-502WJBW-RYGBC

| ① Tiers | ② Rated Voltage | ③ Mounting/Wiring | ④ Flashing/Buzzer | ⑤ Body Color | ⑥ LED Module Color |
|-------------|----------------------|---|------------------------|---------------|--------------------|
| 1 = 1 Tier | 02 = DC24V | WJ = Direct/Cable | B = Flashing/Buzzer | W = Off-white | R = Red |
| 2 = 2 Tiers | M2 = AC100 - 240V *1 | LJ = Pole Mount with/L-bracket/Cable | N = No Flashing/Buzzer | U = Silver *3 | Y = Amber |
| 3 = 3 Tiers | | PJ = Pole Mount with/Circular Bracket/Cable | | | G = Green |
| 4 = 4 Tiers | | QJ = Pole Mount with/Folding Bracket/Cable *2 | | | B = Blue |
| 5 = 5 Tiers | | | | | C = White |

*1 For WJ and PJ type only *2 For DC24V and Off-white type only *3 For DC24V type WJ, LJ and PJ type only

φ50mm Model Code

(Ex.) LR5-502WJBW-RYGBC

| ① Tiers | ② Rated Voltage | ③ Mounting/Wiring | ④ Flashing/Buzzer | ⑤ Body Color | ⑥ LED Module Color |
|-------------|-----------------|---|------------------------|---------------|--------------------|
| 1 = 1 Tier | 01 = DC12V | WJ = Direct/Cable | B = Flashing/Buzzer | W = Off-white | R = Red |
| 2 = 2 Tiers | 02 = DC24V | LJ = Pole Mount with/L-bracket/Cable | N = No Flashing/Buzzer | U = Silver *2 | Y = Amber |
| 3 = 3 Tiers | | PJ = Pole Mount with/Circular Bracket/Cable | | | G = Green |
| 4 = 4 Tiers | | | | | B = Blue |
| 5 = 5 Tiers | | | | | C = White |

φ60mm Model Code

(Ex.) LR6-502WJBW-RYGBC

| ① Tiers | ② Rated Voltage | ③ Mounting/Wiring | ④ Flashing/Buzzer | ⑤ Body Color | ⑥ LED Module Color |
|-------------|----------------------|---|------------------------|---------------|--------------------|
| 1 = 1 Tier | 02 = DC24V | WJ = Direct/Cable | B = Flashing/Buzzer | W = Off-white | R = Red |
| 2 = 2 Tiers | M2 = AC100 - 240V *1 | LJ = Pole Mount with/L-bracket/Cable | N = No Flashing/Buzzer | U = Silver *2 | Y = Amber |
| 3 = 3 Tiers | | PJ = Pole Mount with/Circular Bracket/Cable | | | G = Green |
| 4 = 4 Tiers | | QJ = Pole Mount with/Folding Bracket/Cable *2 | | | B = Blue |
| 5 = 5 Tiers | | | | | C = White |

*1 For WJ and PJ type only *2 For DC24V and Off-white type only *3 For DC24V type WJ, LJ and PJ type only

φ70mm Model Code

(Ex.) LR7-502WJBW-RYGBC


| ① Tiers | ② Rated Voltage | ③ Mounting/Wiring | ④ Flashing/Buzzer | ⑤ Body Color | ⑥ LED Module Color |
|-------------|-----------------|-------------------|------------------------|---------------|--------------------|
| 1 = 1 Tier | 02 = DC24V | WJ = Direct/Cable | B = Flashing/Buzzer | W = Off-white | R = Red |
| 2 = 2 Tiers | | | N = No Flashing/Buzzer | | Y = Amber |
| 3 = 3 Tiers | | | | | G = Green |
| 4 = 4 Tiers | | | | | B = Blue |
| 5 = 5 Tiers | | | | | C = White |


| Mounting Type | Rated Voltage | Size | Flash/Buzzer | Tiers | Model | Power Consumption | Mass |
|-------------------------------------|---------------|------|--------------|-------|-------------|-------------------|---------|
| Pole Mount with/ Folding Bracket | DC24V | φ40 | - | 1 | LR4-102QJNW | 1.0W | 0.455kg |
| | | | | 2 | LR4-202QJNW | 2.0W | 0.490kg |
| | | | | 3 | LR4-302QJNW | 3.0W | 0.525kg |
| | | | | 4 | LR4-402QJNW | 4.0W | 0.560kg |
| | | | | 5 | LR4-502QJNW | 5.0W | 0.595kg |
| | | | | 1 | LR4-102QJBW | 2.0W | 0.490kg |
| | | | | 2 | LR4-202QJBW | 3.0W | 0.525kg |
| | | | | 3 | LR4-302QJBW | 4.0W | 0.560kg |
| | | | | 4 | LR4-402QJBW | 5.0W | 0.595kg |
| | | | | 5 | LR4-502QJBW | 6.0W | 0.630kg |
| | | φ60 | - | 1 | LR6-102QJNW | 1.0W | 0.520kg |
| | | | | 2 | LR6-202QJNW | 2.0W | 0.580kg |
| | | | | 3 | LR6-302QJNW | 3.0W | 0.640kg |
| | | | | 4 | LR6-402QJNW | 4.0W | 0.700kg |
| | | | | 5 | LR6-502QJNW | 5.0W | 0.760kg |
| | | | | 1 | LR6-102QJBW | 2.0W | 0.580kg |
| | | | | 2 | LR6-202QJBW | 3.0W | 0.640kg |
| | | | | 3 | LR6-302QJBW | 4.0W | 0.700kg |
| | | | | 4 | LR6-402QJBW | 5.0W | 0.760kg |
| | | | | 5 | LR6-502QJBW | 6.0W | 0.820kg |

| Mounting Type | Rated Voltage | Size | Flash/Buzzer | Tiers | Model | Power Consumption | Mass | |
|---------------|---------------|---------------|--------------|-------------|-----------------|-------------------|-----------------|-----------------|
| Direct Mount | DC12V | φ50 | - | 1 | LR5-101WJNW | 1.0W | 0.240kg | |
| | | | | 2 | LR5-201WJNW | 2.0W | 0.280kg | |
| | | | | 3 | LR5-301WJNW | 3.0W | 0.320kg | |
| | | | | 4 | LR5-401WJNW | 4.0W | 0.360kg | |
| | | | | 5 | LR5-501WJNW | 5.0W | 0.400kg | |
| | | | | 1 | LR5-101WJBW | 2.1W | 0.290kg | |
| | | | | 2 | LR5-201WJBW | 3.1W | 0.330kg | |
| | | | | 3 | LR5-301WJBW | 4.1W | 0.370kg | |
| | | | | 4 | LR5-401WJBW | 5.1W | 0.410kg | |
| | | | | 5 | LR5-501WJBW | 6.1W | 0.450kg | |
| | DC24V | φ40 | - | 1 | LR4-102WJNW/U | 1.0W | 0.205kg/0.355kg | |
| | | | | 2 | LR4-202WJNW/U | 2.0W | 0.240kg/0.390kg | |
| | | | | 3 | LR4-302WJNW/U | 3.0W | 0.275kg/0.425kg | |
| | | | | 4 | LR4-402WJNW/U | 4.0W | 0.310kg/0.460kg | |
| | | | | 5 | LR4-502WJNW/U | 5.0W | 0.345kg/0.495kg | |
| | | | | 1 | LR4-102WJBW/U | 2.0W | 0.240kg/0.390kg | |
| | | | | 2 | LR4-202WJBW/U | 3.0W | 0.275kg/0.425kg | |
| | | | | 3 | LR4-302WJBW/U | 4.0W | 0.310kg/0.460kg | |
| | | | | 4 | LR4-402WJBW/U | 5.0W | 0.345kg/0.495kg | |
| | | | | 5 | LR4-502WJBW/U | 6.0W | 0.380kg/0.530kg | |
| | | φ50 | - | 1 | LR5-102WJNW | 1.0W | 0.240kg | |
| | | | | 2 | LR5-202WJNW | 2.0W | 0.280kg | |
| | | | | 3 | LR5-302WJNW | 3.0W | 0.320kg | |
| | | | | 4 | LR5-402WJNW | 4.0W | 0.360kg | |
| | | | | 5 | LR5-502WJNW | 5.0W | 0.400kg | |
| 1 | | | | LR5-102WJBW | 2.0W | 0.290kg | | |
| 2 | | | | LR5-202WJBW | 3.0W | 0.330kg | | |
| 3 | | | | LR5-302WJBW | 4.0W | 0.370kg | | |
| 4 | | | | LR5-402WJBW | 5.0W | 0.410kg | | |
| 5 | | | | LR5-502WJBW | 6.0W | 0.450kg | | |
| φ60 | | | | - | 1 | LR6-102WJNW/U | 1.0W | 0.280kg/0.410kg |
| | | | | | 2 | LR6-202WJNW/U | 2.0W | 0.340kg/0.470kg |
| | | | | | 3 | LR6-302WJNW/U | 3.0W | 0.400kg/0.530kg |
| | | | | | 4 | LR6-402WJNW/U | 4.0W | 0.460kg/0.590kg |
| | | | | | 5 | LR6-502WJNW/U | 5.0W | 0.520kg/0.650kg |
| | 1 | LR6-102WJBW/U | 2.0W | | 0.340kg/0.470kg | | | |
| | 2 | LR6-202WJBW/U | 3.0W | | 0.400kg/0.530kg | | | |
| | 3 | LR6-302WJBW/U | 4.0W | | 0.460kg/0.590kg | | | |
| | 4 | LR6-402WJBW/U | 5.0W | | 0.520kg/0.650kg | | | |
| | 5 | LR6-502WJBW/U | 6.0W | | 0.580kg/0.710kg | | | |
| φ70 | - | 1 | LR7-102WJNW | 1.0W | 0.305kg | | | |
| | | 2 | LR7-202WJNW | 2.0W | 0.370kg | | | |
| | | 3 | LR7-302WJNW | 3.0W | 0.435kg | | | |
| | | 4 | LR7-402WJNW | 4.0W | 0.500kg | | | |
| | | 5 | LR7-502WJNW | 5.0W | 0.565kg | | | |
| | | 1 | LR7-102WJBW | 2.0W | 0.375kg | | | |
| | | 2 | LR7-202WJBW | 3.0W | 0.440kg | | | |
| | | 3 | LR7-302WJBW | 4.0W | 0.505kg | | | |
| | | 4 | LR7-402WJBW | 5.0W | 0.570kg | | | |
| | | 5 | LR7-502WJBW | 6.0W | 0.635kg | | | |
| AC100 - 240V | φ40 | - | 1 | LR4-1M2WJNW | 1.5W | 0.285kg | | |
| | | | 2 | LR4-2M2WJNW | 3.0W | 0.320kg | | |
| | | | 3 | LR4-3M2WJNW | 4.5W | 0.355kg | | |
| | | | 4 | LR4-4M2WJNW | 6.0W | 0.390kg | | |
| | | | 5 | LR4-5M2WJNW | 7.5W | 0.425kg | | |
| | | | 1 | LR4-1M2WJBW | 3.0W | 0.320kg | | |
| | | | 2 | LR4-2M2WJBW | 4.5W | 0.355kg | | |
| | | | 3 | LR4-3M2WJBW | 6.0W | 0.390kg | | |
| | | | 4 | LR4-4M2WJBW | 7.5W | 0.425kg | | |
| | | | 5 | LR4-5M2WJBW | 9.0W | 0.460kg | | |
| | φ60 | - | 1 | LR6-1M2WJNW | 1.5W | 0.380kg | | |
| | | | 2 | LR6-2M2WJNW | 3.0W | 0.440kg | | |
| | | | 3 | LR6-3M2WJNW | 4.5W | 0.500kg | | |
| | | | 4 | LR6-4M2WJNW | 6.0W | 0.560kg | | |
| | | | 5 | LR6-5M2WJNW | 7.5W | 0.620kg | | |
| | | | 1 | LR6-1M2WJBW | 3.0W | 0.440kg | | |
| | | | 2 | LR6-2M2WJBW | 4.5W | 0.500kg | | |
| | | | 3 | LR6-3M2WJBW | 6.0W | 0.560kg | | |
| | | | 4 | LR6-4M2WJBW | 7.5W | 0.620kg | | |
| | | | 5 | LR6-5M2WJBW | 9.0W | 0.680kg | | |

Signal Tower

LR Series Pre-assembled Models

| Mounting Type | Rated Voltage | Size | Flash/Buzzer | Tiers | Model | Power Consumption | Mass |
|--|---------------|-------------|---------------|-------------|-----------------|-------------------|-----------------|
|  | DC12V | φ50 | - | 1 | LR5-101PJNW | 1.0W | 0.420kg |
| | | | | 2 | LR5-201PJNW | 2.0W | 0.460kg |
| | | | | 3 | LR5-301PJNW | 3.0W | 0.500kg |
| | | | | 4 | LR5-401PJNW | 4.0W | 0.540kg |
| | | | | 5 | LR5-501PJNW | 5.0W | 0.580kg |
| | | | O | 1 | LR5-101PJBW | 2.1W | 0.470kg |
| | | | | 2 | LR5-201PJBW | 3.1W | 0.510kg |
| | | | | 3 | LR5-301PJBW | 4.4W | 0.550kg |
| | | | | 4 | LR5-401PJBW | 5.1W | 0.590kg |
| | | | | 5 | LR5-501PJBW | 6.1W | 0.630kg |
| | DC24V | φ40 | - | 1 | LR4-102PJNW/U | 1.0W | 0.395kg/0.545kg |
| | | | | 2 | LR4-202PJNW/U | 2.0W | 0.430kg/0.580kg |
| | | | | 3 | LR4-302PJNW/U | 3.0W | 0.465kg/0.615kg |
| | | | | 4 | LR4-402PJNW/U | 4.0W | 0.500kg/0.650kg |
| | | | | 5 | LR4-502PJNW/U | 5.0W | 0.535kg/0.685kg |
| | | | O | 1 | LR4-102PJBW/U | 2.0W | 0.430kg/0.580kg |
| | | | | 2 | LR4-202PJBW/U | 3.0W | 0.465kg/0.615kg |
| | | | | 3 | LR4-302PJBW/U | 4.0W | 0.500kg/0.650kg |
| | | | | 4 | LR4-402PJBW/U | 5.0W | 0.535kg/0.685kg |
| | | | | 5 | LR4-502PJBW/U | 6.0W | 0.570kg/0.720kg |
| φ50 | | - | 1 | LR5-102PJNW | 1.0W | 0.420kg | |
| | | | 2 | LR5-202PJNW | 2.0W | 0.460kg | |
| | | | 3 | LR5-302PJNW | 3.0W | 0.500kg | |
| | | | 4 | LR5-402PJNW | 4.0W | 0.540kg | |
| | | | 5 | LR5-502PJNW | 5.0W | 0.580kg | |
| | | O | 1 | LR5-102PJBW | 2.0W | 0.470kg | |
| | | | 2 | LR5-202PJBW | 3.0W | 0.510kg | |
| | | | 3 | LR5-302PJBW | 4.0W | 0.550kg | |
| | | | 4 | LR5-402PJBW | 5.0W | 0.590kg | |
| | | | 5 | LR5-502PJBW | 6.0W | 0.630kg | |
| φ60 | - | 1 | LR6-102PJNW/U | 1.0W | 0.460kg/0.590kg | | |
| | | 2 | LR6-202PJNW/U | 2.0W | 0.520kg/0.650kg | | |
| | | 3 | LR6-302PJNW/U | 3.0W | 0.580kg/0.710kg | | |
| | | 4 | LR6-402PJNW/U | 4.0W | 0.640kg/0.770kg | | |
| | | 5 | LR6-502PJNW/U | 5.0W | 0.700kg/0.830kg | | |
| | O | 1 | LR6-102PJBW/U | 2.0W | 0.520kg/0.650kg | | |
| | | 2 | LR6-202PJBW/U | 3.0W | 0.580kg/0.710kg | | |
| | | 3 | LR6-302PJBW/U | 4.0W | 0.640kg/0.770kg | | |
| | | 4 | LR6-402PJBW/U | 5.0W | 0.700kg/0.830kg | | |
| | | 5 | LR6-502PJBW/U | 6.0W | 0.760kg/0.890kg | | |
| AC100 - 240V | φ40 | - | 1 | LR4-1M2PJNW | 1.5W | 0.475kg | |
| | | | 2 | LR4-2M2PJNW | 3.0W | 0.510kg | |
| | | | 3 | LR4-3M2PJNW | 4.5W | 0.545kg | |
| | | | 4 | LR4-4M2PJNW | 6.0W | 0.580kg | |
| | | | 5 | LR4-5M2PJNW | 7.5W | 0.615kg | |
| | O | 1 | LR4-1M2PJBW | 3.0W | 0.510kg | | |
| | | 2 | LR4-2M2PJBW | 4.5W | 0.545kg | | |
| | | 3 | LR4-3M2PJBW | 6.0W | 0.580kg | | |
| | | 4 | LR4-4M2PJBW | 7.5W | 0.615kg | | |
| | | 5 | LR4-5M2PJBW | 9.0W | 0.650kg | | |
| φ60 | - | 1 | LR6-1M2PJNW | 1.5W | 0.560kg | | |
| | | 2 | LR6-2M2PJNW | 3.0W | 0.620kg | | |
| | | 3 | LR6-3M2PJNW | 4.5W | 0.680kg | | |
| | | 4 | LR6-4M2PJNW | 6.0W | 0.740kg | | |
| | | 5 | LR6-5M2PJNW | 7.5W | 0.800kg | | |
| O | 1 | LR6-1M2PJBW | 3.0W | 0.620kg | | | |
| | 2 | LR6-2M2PJBW | 4.5W | 0.680kg | | | |
| | 3 | LR6-3M2PJBW | 6.0W | 0.740kg | | | |
| | 4 | LR6-4M2PJBW | 7.5W | 0.800kg | | | |
| | 5 | LR6-5M2PJBW | 9.0W | 0.860kg | | | |
| DC12V | φ50 | - | 1 | LR5-101LJNW | 1.0W | 0.530kg | |
| | | | 2 | LR5-201LJNW | 2.0W | 0.570kg | |
| | | | 3 | LR5-301LJNW | 3.0W | 0.610kg | |
| | | | 4 | LR5-401LJNW | 4.0W | 0.650kg | |
| | | | 5 | LR5-501LJNW | 5.0W | 0.690kg | |
| | | O | 1 | LR5-101LJBW | 2.1W | 0.580kg | |
| | | | 2 | LR5-201LJBW | 3.1W | 0.620kg | |
| | | | 3 | LR5-301LJBW | 4.1W | 0.660kg | |
| | | | 4 | LR5-401LJBW | 5.1W | 0.700kg | |
| | | | 5 | LR5-501LJBW | 6.1W | 0.740kg | |

| Mounting Type | Rated Voltage | Size | Flash/Buzzer | Tiers | Model | Power Consumption | Mass |
|---|---------------|------|---------------|-------|-----------------|-------------------|-----------------|
|  | DC24V | φ40 | - | 1 | LR4-102LJNW/U | 1.0W | 0.495kg/0.645kg |
| | | | | 2 | LR4-202LJNW/U | 2.0W | 0.530kg/0.680kg |
| | | | | 3 | LR4-302LJNW/U | 3.0W | 0.565kg/0.715kg |
| | | | | 4 | LR4-402LJNW/U | 4.0W | 0.600kg/0.750kg |
| | | | | 5 | LR4-502LJNW/U | 5.0W | 0.635kg/0.785kg |
| | | | O | 1 | LR4-102LJBW/U | 2.0W | 0.530kg/0.680kg |
| | | | | 2 | LR4-202LJBW/U | 3.0W | 0.565kg/0.715kg |
| | | | | 3 | LR4-302LJBW/U | 4.0W | 0.600kg/0.750kg |
| | | | | 4 | LR4-402LJBW/U | 5.0W | 0.635kg/0.785kg |
| | | | | 5 | LR4-502LJBW/U | 6.0W | 0.670kg/0.820kg |
| | | φ50 | - | 1 | LR5-102LJNW | 1.0W | 0.530kg |
| | | | | 2 | LR5-202LJNW | 2.0W | 0.570kg |
| | | | | 3 | LR5-302LJNW | 3.0W | 0.610kg |
| | | | | 4 | LR5-402LJNW | 4.0W | 0.650kg |
| | | | | 5 | LR5-502LJNW | 5.0W | 0.690kg |
| | | | O | 1 | LR5-102LJBW | 2.0W | 0.580kg |
| | | | | 2 | LR5-202LJBW | 3.0W | 0.620kg |
| | | | | 3 | LR5-302LJBW | 4.0W | 0.660kg |
| | | | | 4 | LR5-402LJBW | 5.0W | 0.700kg |
| | | | | 5 | LR5-502LJBW | 6.0W | 0.740kg |
| φ60 | - | 1 | LR6-102LJNW/U | 1.0W | 0.560kg/0.700kg | | |
| | | 2 | LR6-202LJNW/U | 2.0W | 0.620kg/0.760kg | | |
| | | 3 | LR6-302LJNW/U | 3.0W | 0.680kg/0.820kg | | |
| | | 4 | LR6-402LJNW/U | 4.0W | 0.740kg/0.880kg | | |
| | | 5 | LR6-502LJNW/U | 5.0W | 0.800kg/0.940kg | | |
| | O | 1 | LR6-102LJBW/U | 2.0W | 0.620kg/0.760kg | | |
| | | 2 | LR6-202LJBW/U | 3.0W | 0.680kg/0.820kg | | |
| | | 3 | LR6-302LJBW/U | 4.0W | 0.740kg/0.880kg | | |
| | | 4 | LR6-402LJBW/U | 5.0W | 0.800kg/0.940kg | | |
| | | 5 | LR6-502LJBW/U | 6.0W | 0.860kg/1.000kg | | |

LED Units * All LED units can be used with all voltage types. Up to 5 LED units can be mounted and used.

| Size | Color | Model | Power Consumption | Mass |
|------|-------|---------|-------------------|---------|
| φ40 | Red | LR4-E-R | 1.0W | 0.035kg |
| | Amber | LR4-E-Y | 1.0W | 0.035kg |
| | Green | LR4-E-G | 1.0W | 0.035kg |
| | Blue | LR4-E-B | 1.0W | 0.035kg |
| | White | LR4-E-C | 1.0W | 0.035kg |
| φ50 | Red | LR5-E-R | 1.0W | 0.040kg |
| | Amber | LR5-E-Y | 1.0W | 0.040kg |
| | Green | LR5-E-G | 1.0W | 0.040kg |
| | Blue | LR5-E-B | 1.0W | 0.040kg |
| | White | LR5-E-C | 1.0W | 0.040kg |
| φ60 | Red | LR6-E-R | 1.0W | 0.060kg |
| | Amber | LR6-E-Y | 1.0W | 0.060kg |
| | Green | LR6-E-G | 1.0W | 0.060kg |
| | Blue | LR6-E-B | 1.0W | 0.060kg |
| | White | LR6-E-C | 1.0W | 0.060kg |
| φ70 | Red | LR7-E-R | 1.0W | 0.065kg |
| | Amber | LR7-E-Y | 1.0W | 0.065kg |
| | Green | LR7-E-G | 1.0W | 0.065kg |
| | Blue | LR7-E-B | 1.0W | 0.065kg |
| | White | LR7-E-C | 1.0W | 0.065kg |

Buzzer Units * Buzzer unit can be used with all voltage types. Possibility to add buzzer function afterward.

| Size | Model | Power Consumption | Mass |
|------|--------|-------------------|---------|
| φ40 | LR4-B□ | 1.0W | 0.035kg |
| φ50 | LR5-BW | 1.0W | 0.050kg |
| φ60 | LR6-B□ | 1.0W | 0.060kg |
| φ70 | LR7-BW | 1.0W | 0.070kg |

LED Unit Model Code

LR□-E-□

Model ① LED Unit ②

① Size
4 = φ40
5 = φ50
6 = φ60
7 = φ70

② Color
R = Red
Y = Amber
G = Green
B = Blue
C = White

Buzzer Unit Model Code

LR□-B□

Model ① Buzzer Unit ②

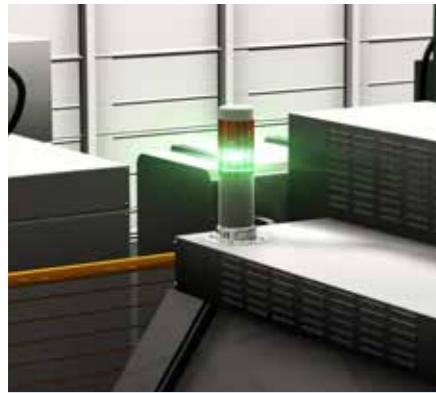
① Size
4 = φ40
5 = φ50
6 = φ60
7 = φ70

② Color
W = Off-white
U = Silver*1
*1 LR4 / LR6 only

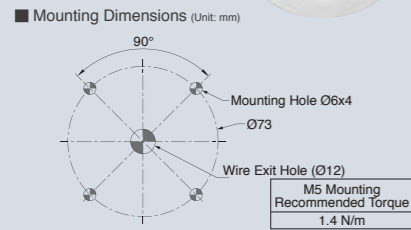
Signal Tower

LR Series Optional Parts

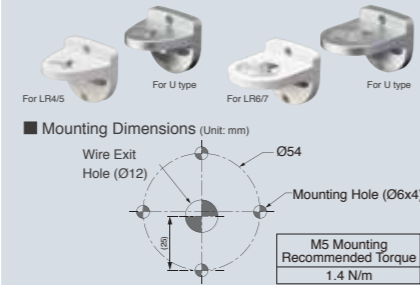
Direct Mount Brackets



Circular Bracket
Model: SZW-001W



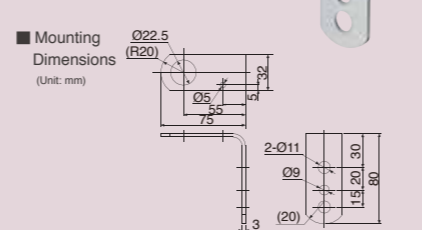
Wall-mount Bracket
Model: SZK-002W(U) SZK-003W(U)



T Type Aluminum Pole Brackets



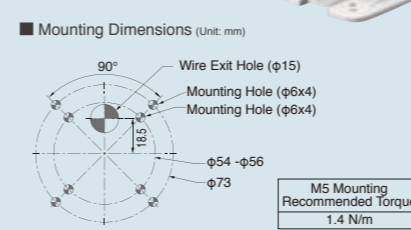
L-bracket
Model: SZL-001



N Type Aluminum Pole Brackets



Folding Bracket
Model: SZQ-001W

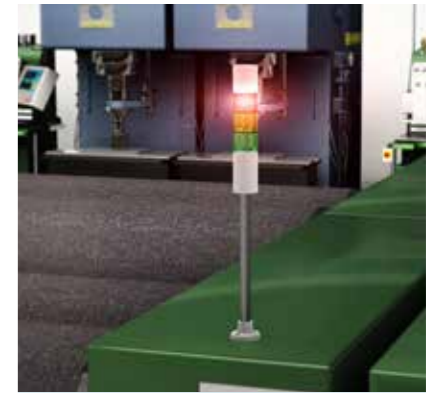


- Depressing a locking lever on the left side of the folding bracket releases it to be lowered.

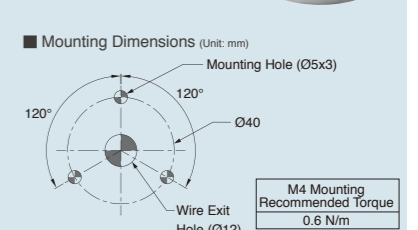
Body Side
Push down about 15° to the left.
Press the tab down while pushing to the left.
- Press the folding bracket forward and push about 15° in the clockwise direction.

Pull forward and turn clockwise.
- The folding bracket is pushed down to the right (clockwise) until it locks in place with a "Click" sound.

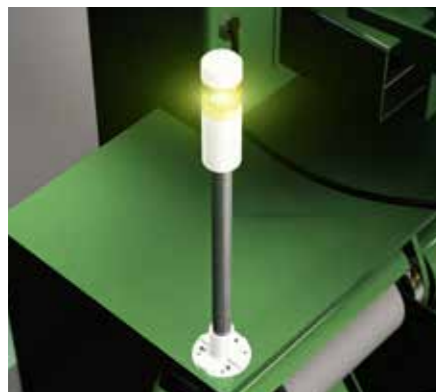
Push down to the right.
Click!



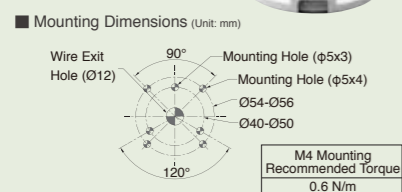
Circular Bracket
Model: SZP-003W



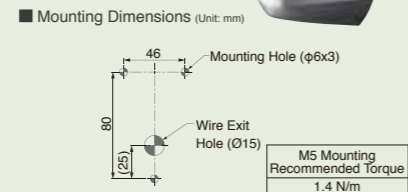
N Type Aluminum Pole Brackets



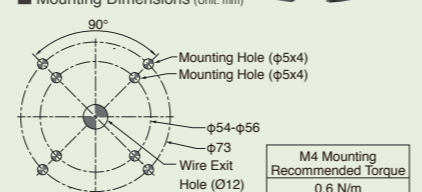
Circular Multiple-mount Bracket
Model: SZP-001W



Wall-mount Bracket
Model: SZK-001U



Circular Bracket
Model: SZP-002U



Aluminum Poles (Waterproof Ring/Screw Accessories included)

| N Type | | | T Type | | |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| | | | | | |
| 100mm | 300mm | 800mm | 300mm | 500mm | 1000mm |
| Model: POLE22-0100AN | Model: POLE22-0300AN | Model: POLE22-0800AN | Model: POLE22-0300AT | Model: POLE22-0500AT | Model: POLE22-1000AT |

Replacement Parts

O-ring/Headcover

| O-ring | Headcover | O-ring | Headcover | O-ring | Headcover | O-ring | Headcover |
|---------------------|--|---------------------|--|---------------------|--|---------------------|--|
| Model: B25110065-F1 | Model: [W] B32310070-7F1 [U] B32310070-9F1 | Model: B25110066-F1 | Model: [W] B32310071-7F1 [K] B32310071-8F1 [U] B32310071-9F1 | Model: B25110067-F1 | Model: [W] B32310072-7F1 [U] B32310072-9F1 | Model: B25110068-F1 | Model: [W] B32310073-7F1 [K] B32310073-8F1 [U] B32310073-9F1 |

Base Unit

• Adaptor for Aluminum Pole

| LR4 | LR5 | LR6 |
|--|--|--|
| Model: [W] B22210159-7F1 [U] B22210159-9F1 | Model: [W] B22210160-7F1 [K] B22210160-8F1 [U] B22210160-9F1 | Model: [W] B22210161-7F1 [U] B22210161-9F1 |

Terminal Block

Model: Z69544511-F1

Filter Sheet

| | | | |
|---|---|---|---|
| | | | |
| LR4 LED Unit Sheet Model: B25310067-4F1 | LR5 LED Unit Sheet Model: B25310067-5F1 | LR6 LED Unit Sheet Model: B25310067-6F1 | LR7 LED Unit Sheet Model: B25310067-7F1 |

LR Series Modular Models

Select a Buzzer Unit (for Flashing / Buzzer function)

| Size | Color | Model | Power Consumption | Mass |
|------|-------|--------|-------------------|---------|
| φ40 | | LR4-B□ | 1.0W | 0.035kg |
| φ50 | | LR5-B□ | 1.0W | 0.050kg |
| φ60 | | LR6-B□ | 1.0W | 0.060kg |
| φ70 | | LR7-B□ | 1.0W | 0.070kg |

□···W: Off-white U: Silver K: Black

Select an LED Unit

| Size | Color | Model | Power Consumption | Mass |
|------|-------|-----------------|-------------------|---------|
| φ40 | | LR4-E-R/Y/G/B/C | 1.0W | 0.035kg |
| φ50 | | LR5-E-R/Y/G/B/C | 1.0W | 0.040kg |
| φ60 | | LR6-E-R/Y/G/B/C | 1.0W | 0.060kg |
| φ70 | | LR7-E-R/Y/G/B/C | 1.0W | 0.065kg |

Select a Body Unit



Direct Mount Models (WJ, WT)

| DC24V | AC100-240V | DC12V | DC24V | DC24V | AC100-240V | DC24V | Terminal |
|-------|------------|-------|-------|-------|------------|-------|----------|
| | | | | | | | |
| LR4 | | LR5 | | LR6 | | LR7 | |
| φ40 | | φ50 | | φ60 | | φ70 | |

L-bracket Models (LJ)

| DC24V | DC12V | DC24V | DC24V |
|-------|-------|-------|-------|
| | | | |
| LR4 | LR5 | LR5 | LR6 |
| φ40 | φ50 | φ50 | φ60 |

Circular Bracket Mount Models (PJ)

| DC24V | AC100-240V | DC12V | DC24V | DC24V | AC100-240V |
|-------|------------|-------|-------|-------|------------|
| | | | | | |
| LR4 | | LR5 | | LR6 | |
| φ40 | | φ50 | | φ60 | |

Folding Bracket Models (QJ)

| DC24V | DC24V |
|-------|-------|
| | |
| LR4 | LR6 |
| φ40 | φ60 |

Body Unit Model Code

(Ex.) **LR6-02WJNW**

Model ① ② ③ ④ ⑤

- (1) Size: 4 = φ40, 5 = φ50, 6 = φ60, 7 = φ70
 - (2) Rated Voltage: 01 = DC12V^{*1}, 02 = DC24V, M2 = AC100-240V^{*2}
 - (3) Mounting/Wiring: WJ = Direct with/Cable, WT = Direct with/Terminal^{*3}, LJ = Pole/L-bracket with/Cable^{*4}, PJ = Pole/Circular Bracket with/Cable^{*4}, QJ = Pole/Folding Bracket with/Cable^{*5}
 - (4) Flashing/Buzzer: N = No Flashing/Buzzer
 - (5) Body Color: W = Off-white, U = Silver, K = Black^{*6}
- *1 For LR5 models only
*2 For WJ and PJ mounting with LR4 and LR6 models
*3 For LR5, LR7 DC24V models only
*4 For LR4, LR5 and LR6 models
*5 With LR4 and LR6 DC24V Off-white models only
*6 For LR5, LR7 models only

3 Easy Steps

1 Remove the headcover to setup the body unit



2 Attach one LED unit at a time to the body unit



3 Replace the headcover, or attach the buzzer unit



See the Movie!!

Scan the QR code to see how easy LR is to configure.



| Mounting Type | Rated Voltage | Size | Wiring | Model |
|-----------------------------------|---------------|--------------|--------------|--------------------|
| Direct Mount | DC12V | φ50 | Cable | LR5-01WJNW |
| | | φ40 | | LR4-02WJNW/U |
| | | φ50 | | LR5-02WJNW |
| | DC24V | φ60 | | LR6-02WJNW/U |
| | | φ70 | | LR7-02WJNW |
| | | φ50 | | Screwless Terminal |
| Pole Mount with/ Circular Bracket | AC100-240V | φ60 | Cable | LR7-02WTNW/U/K |
| | | φ40 | | LR4-M2WJNW |
| | | φ60 | | LR6-M2WJNW |
| | DC12V | φ50 | | LR5-01PJNW |
| | | φ40 | | LR4-02PJNW/U |
| | | φ50 | | LR5-02PJNW |
| DC24V | φ60 | LR6-02PJNW/U | | |
| | AC100-240V | φ40 | LR4-M2PJNW | |
| | | φ60 | LR6-M2PJNW | |
| Pole Mount with/ L-bracket | | DC12V | φ50 | Cable |
| | φ40 | | LR4-02LJNW/U | |
| | DC24V | φ50 | LR5-02LJNW | |
| | | φ60 | LR6-02LJNW/U | |
| Pole Mount with/ Folding Bracket | DC24V | φ40 | LR4-02QJNW | |
| | | φ60 | LR6-02QJNW | |

Removable Screwless Terminal



A new removable terminal for easier wiring.



The terminal can be pulled out

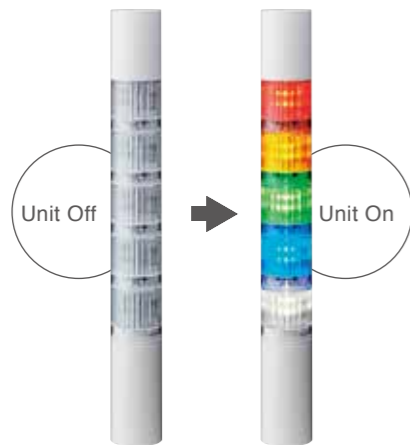


LR Series Upcoming Products

LR Series 2nd Phase

Available in 2017

Clear Lens LED Unit LR4/LR6



Multi-color LED Unit LR6



Accessories & Options

M12 Connector

LR6

NPT Adaptor

LR4-LR7

Wall Mount Bracket (Uncovered Cable)

LR6/LR7

Signal Tower with Switch Box

LR5

Wireless Data Acquisition System WD Series and LR Series

The WD Series is a system for retrieving data from PATLITE Signal Towers remotely and in real-time. The WD system can be used for a variety of applications, such as collecting data to identify production bottlenecks.

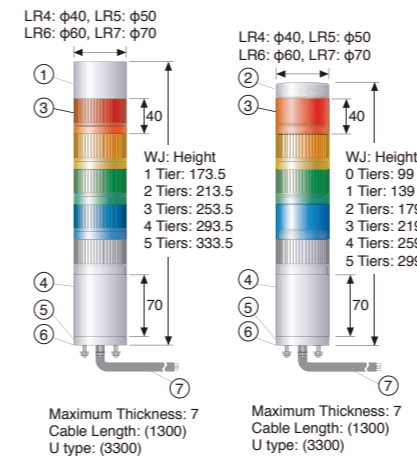


WD Series
PRO 2.4GHz
WIRELESS SYSTEM

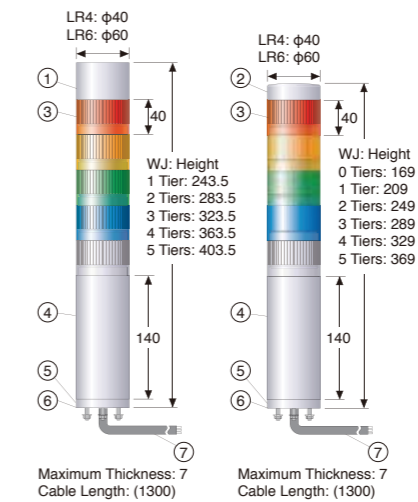


Outer Dimensional Drawing (Unit: mm)

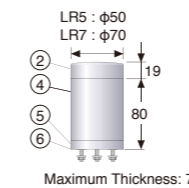
Mount A [WJ] Direct Mount/Cable (01: DC12V / 02: DC24V)



Mount A [WJ] Direct Mount/Cable (M2: AC100V - 240V)

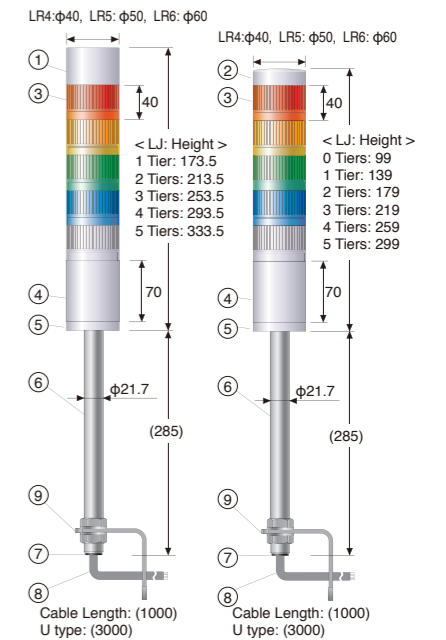


Mount A [WT] Direct Mount/Screwless Terminal (Body Unit)



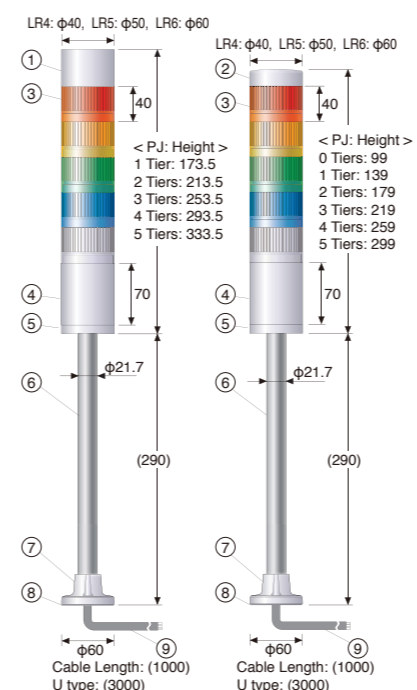
| Number | Description | Material |
|--------|----------------------|----------------|
| ① | Buzzer Assembly Unit | PC |
| ② | Headcover | PC |
| ③ | LED Assembly Unit | Globe: PC |
| ④ | Body | PC |
| ⑤ | Direct-mount Bracket | PC |
| ⑥ | Waterproof Packing | Silicon Rubber |
| ⑦ | Cable | PVC |

Mount B [LJ] Pole Mount with/L-bracket & Cable (01: DC12V / 02: DC24V)



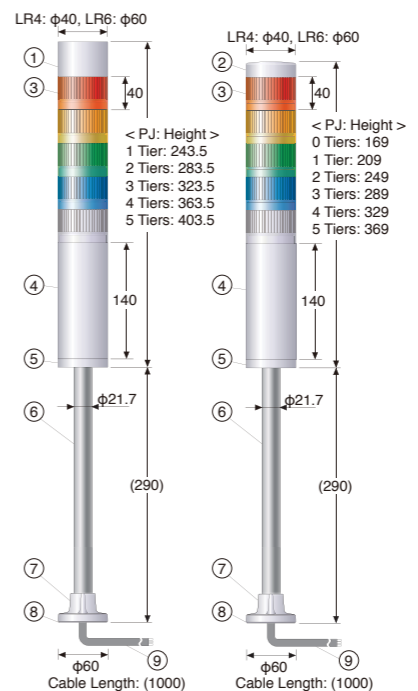
| Number | Description | Material |
|--------|----------------------|------------|
| ① | Buzzer Assembly Unit | PC |
| ② | Headcover | PC |
| ③ | LED Assembly Unit | Globe: PC |
| ④ | Body | PC |
| ⑤ | Pole Bracket | PC |
| ⑥ | Pole | AL |
| ⑦ | Rubber Bushing | EPR Rubber |
| ⑧ | Cable | PVC |
| ⑨ | L-bracket | Steel |

Mount A [PJ] Pole Mount with/Circular Bracket & Cable (01: DC12V / 02: DC24V)



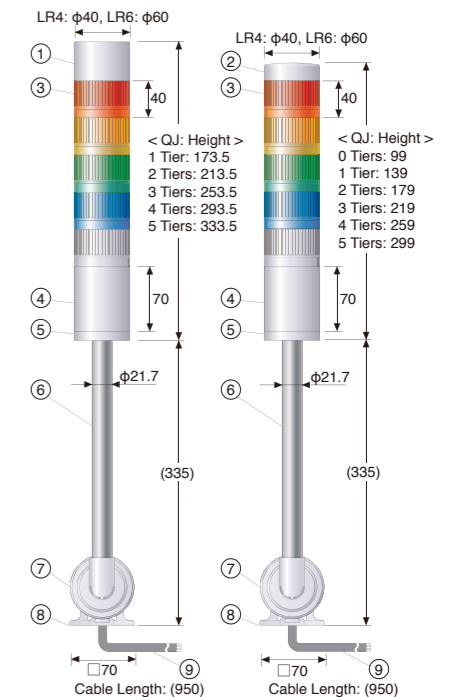
| Number | Description | Material |
|--------|----------------------|----------------|
| ① | Buzzer Assembly Unit | PC |
| ② | Headcover | PC |
| ③ | LED Assembly Unit | Globe: PC |
| ④ | Body | PC |
| ⑤ | Pole Bracket | PC |
| ⑥ | Pole | AL |
| ⑦ | Circular Bracket | PC |
| ⑧ | Waterproof Packing | Silicon Rubber |
| ⑨ | Cable | PVC |

Mount A [PJ] Pole Mount with/Circular Bracket & Cable (M2: AC100V - 240V)



| Number | Description | Material |
|--------|----------------------|----------------|
| ① | Buzzer Assembly Unit | PC |
| ② | Headcover | PC |
| ③ | LED Assembly Unit | Globe: PC |
| ④ | Body | PC |
| ⑤ | Pole Bracket | PC |
| ⑥ | Pole | AL |
| ⑦ | Circular Bracket | PC |
| ⑧ | Waterproof Packing | Silicon Rubber |
| ⑨ | Cable | PVC |

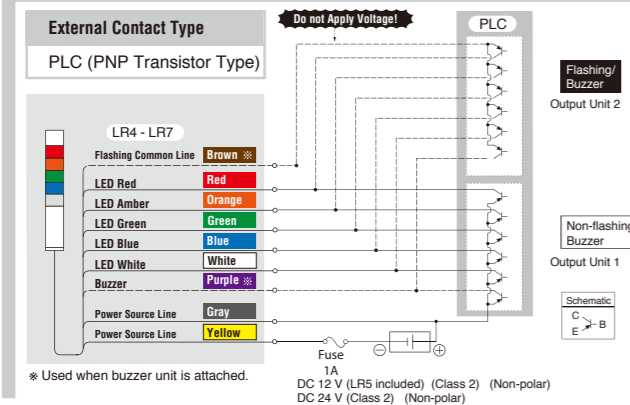
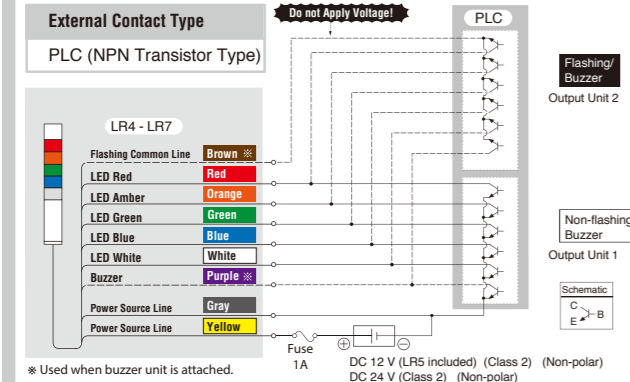
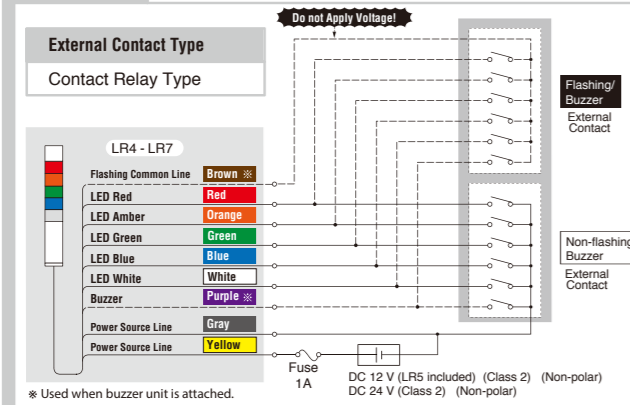
Mount C [QJ] Pole Mount with/Folding Bracket & Cable (02: DC24V)



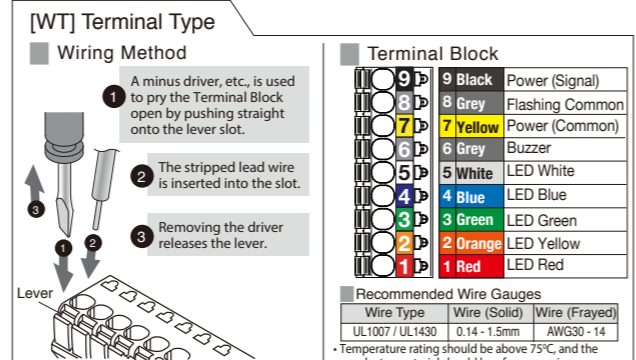
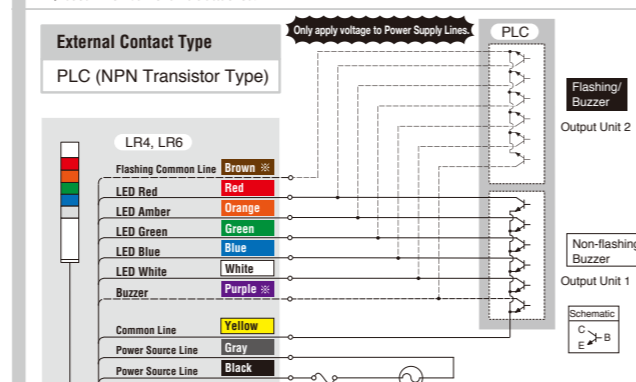
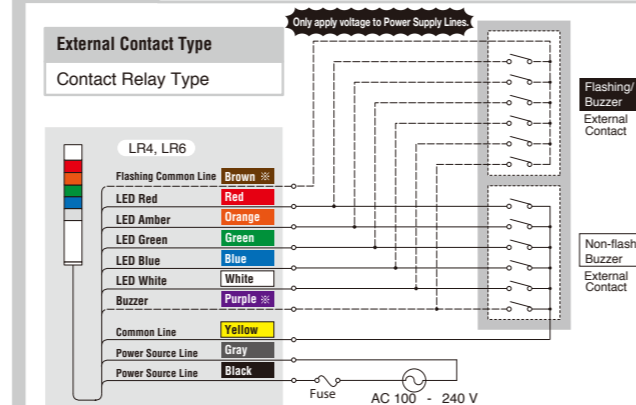
| Number | Description | Material |
|--------|----------------------|-----------|
| ① | Buzzer Assembly Unit | PC |
| ② | Headcover | PC |
| ③ | LED Assembly Unit | Globe: PC |
| ④ | Body | PC |
| ⑤ | Pole Bracket | PC |
| ⑥ | Pole | AL |
| ⑦ | Folding Bracket | PC |
| ⑧ | Waterproof Packing | CR |
| ⑨ | Cable | PVC |

Wiring Diagrams

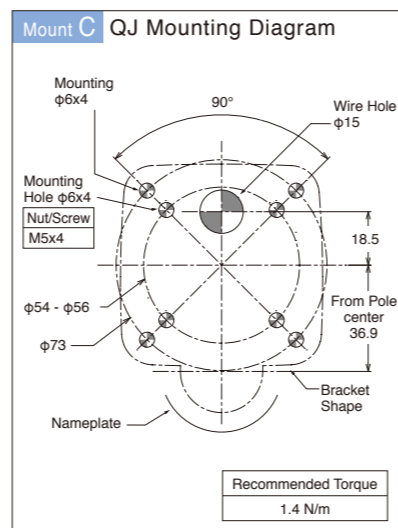
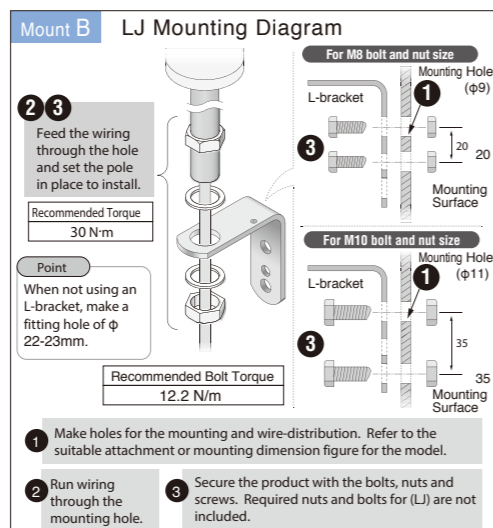
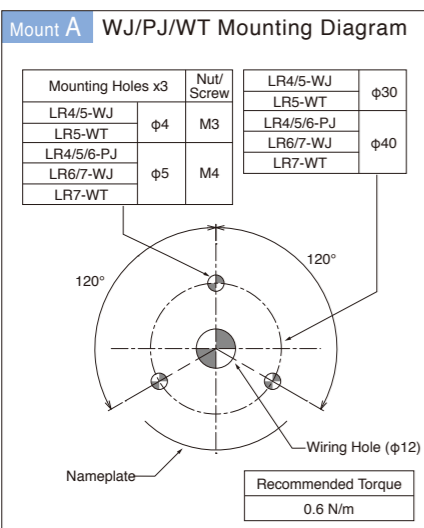
Product Type [01] DC 12V [02] DC 24V
 Model LR □ - □ 02 □ / LR5- □ 01 □ □ W



Product Type [M2] AC 100 - 240V
 Model LR □ - □ M2 □ □ W



Mounting Dimensions (Unit: mm)



Specification

| Specifications | |
|--------------------------------|---|
| Operating Ambient Temperature | -20°C - +50°C |
| Operating Humidity Range | 90% RH or less, no condensation |
| Storage Temperature Range | -30°C - +60°C |
| Storage Humidity Range | 90% RH or less, no condensation |
| Mounting Location | Indoor Use |
| Mounting Direction | Upright Position |
| Protection Rating ¹ | IP65 (IEC 60529) / NEMA TYPE 4X, 13 |
| Environmental Conditions | Upright Position |
| Insulation Resistance | More than 1MΩ at DC500V between the power input lead and chassis |
| Withstand Voltage | AC500V for 1 minute between terminals and chassis without breaking insulation (M2: AC1500V for 1 min.) |
| Flash Rate | 60 ±2 flashes/ min |
| Sound Level | LR4 Typ. 85dB LR5 Typ. 85dB LR6 Typ. 88dB LR7 Typ. 90dB LR5 DC12V Typ. 80dB |
| Sound Reduction ² | ab. -10dB reduction |
| Environmental Conditions | Buzzer Sound No.4 (Sweep) from all directions at a 1m distance |
| Buzzer Sound | 4 patterns ² No.1 Rapid Intermittent sound No.2 Continuous sound No.3 Rapid Hi-low No.4 Sweep sound |
| Transistor Output | NPN / PNP (AC100 - 240V is NPN only) |
| Conformity Standards | <ul style="list-style-type: none"> UL 508, CSA-C22.2 No.14 FCC Part 15 Subpart B Class A RoHS Directive (EN 50581) EMC Directive (EN 61000-6-4, EN 61000-6-2) KC (KN 61000-6-4, KN 61000-6-2) Low-voltage Directive (IEC/EN 60947-5-1, EN62471)³ |

¹: LJ Type is IP54 ²: Dependent on DIP Switch Settings ³: M2 Type Only

| External Contact Capacity | | | | Is:Current Capacity | Vs:Saturated Voltage | Il:Leakage Current | Ta:Ambient Temperature |
|---------------------------|---------------------|------------------------------------|------------------------------------|---|----------------------|--------------------|------------------------|
| Rated Voltage | DC12V ¹ | DC24V | AC100 - 240V ² | | | | |
| LED Unit (Per Tier) | Signal Line Current | 90mA | 40mA | 40mA | | | |
| | Contact Capacity | Is ≥ 100mA Vs ≥ DC35V | Is ≥ 100mA Vs ≥ DC35V | Is ≥ 100mA Vs ≥ DC35V | | | |
| Buzzer | Signal Line Current | 90mA | 40mA | 40mA | | | |
| | Contact Capacity | Is ≥ 300mA Vs ≥ DC35V ³ | Is ≥ 300mA Vs ≥ DC35V ³ | Is ≥ 300mA Vs ≥ DC35V | | | |
| Power | Current Consumption | 500mA | 250mA | 150mA | | | |
| | Contact Capacity | Is ≥ 700mA Vs ≥ DC35V | Is ≥ 700mA Vs ≥ DC35V | Current rating higher than inrush current | | | |
| Inrush Current | Signal Line | None ³ | None ³ | None | | | |
| | Power Line | 0.7A at 15ms or less | 0.7A at 0.5ms or less | 25A (Ta=25°C), 50A (Ta=50°C) at 2.0ms or less | | | |
| Leakage Contact Current | | | Il ≤ 0.1 mA | | | | |

¹: LR5 Only ²: LR4/LR6 Only ³: An inrush current of 0.7A flows through the signal line when the Gray power source line is disconnected. Be sure to select an external contact which can withstand the capacity. [Recommended Fuse] Rated Current: 250V / 1A 5x20mm Fast-blow Glass Fuse

| LED Unit Specifications | | | | | | |
|---------------------------------------|--|-------------|-------------|-------------|-------------|-------------|
| Color | Red | Amber | Green | Blue | White | |
| Rated Voltage | DC24V | | | | | |
| Current Consumption/Power Consumption | Typ. | 0.04A/1W | 0.04A/1W | 0.04A/1W | 0.04A/1W | 0.04A/1W |
| | Max. | 0.045A/1.3W | 0.045A/1.3W | 0.045A/1.3W | 0.045A/1.3W | 0.045A/1.3W |
| Conformity Standards | <ul style="list-style-type: none"> UL 508, CSA-C22.2 No.14 EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581) | | | | | |

| Buzzer Unit Specifications | |
|---------------------------------------|---|
| Rated Voltage | DC24V |
| Current Consumption/Power Consumption | Typ. 0.04A/1W |
| | Max. 0.3A/1.3W |
| Conformity Standards | <ul style="list-style-type: none"> UL 508, CSA-C22.2 No.14 EMC Directive (EN 61000-6-4, EN 61000-6-2) FCC Part 15 Subpart B Class A RoHS Directive (EN 50581) |