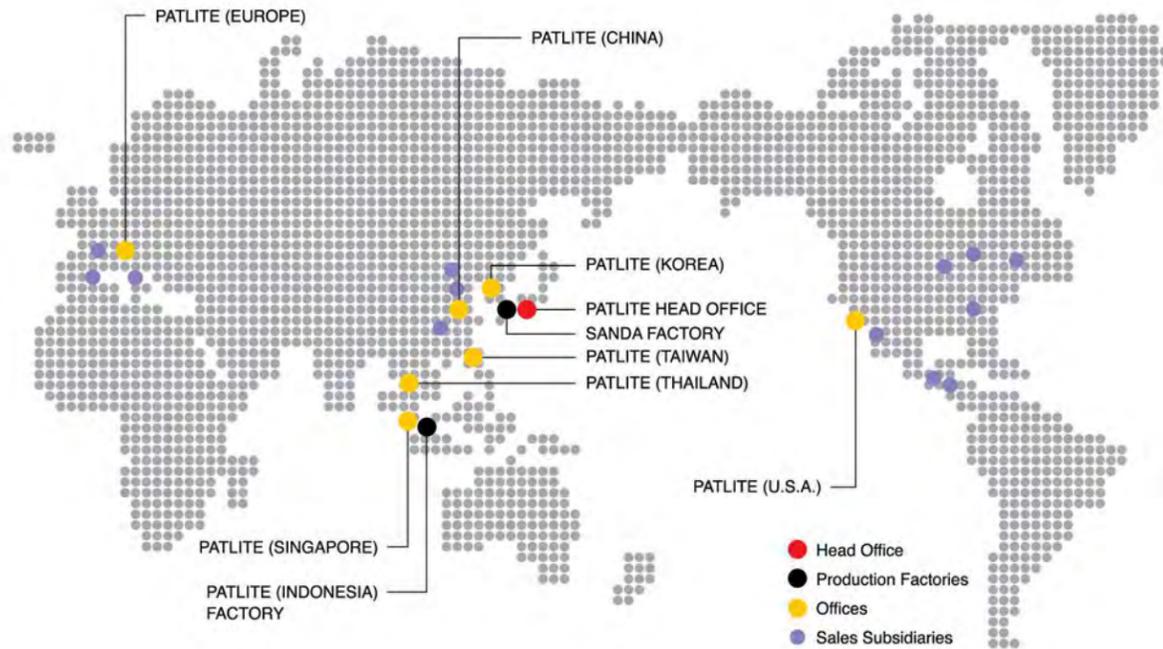


As a global company, we offer our products and support worldwide.

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.



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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.

O-AG11 EN 1710 A

PATLITE®
New Frontiers in Safety, Security and Comfort.

Signal Tower LR Series



NEMA Type 4X, 13

www.patlite.com

Signal Tower

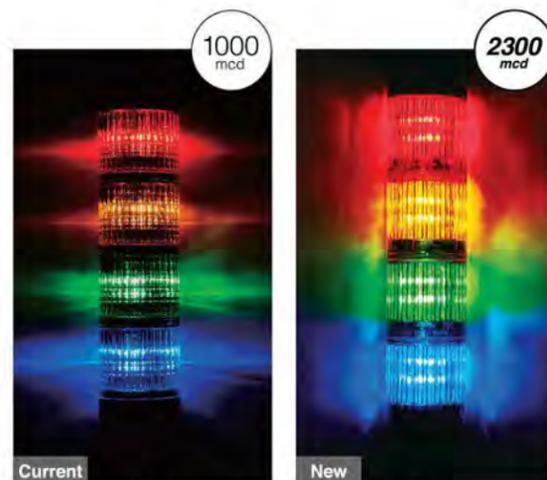
LR Series

Modular LED Signal Tower



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 LME Series (φ60) New LR6 Series (φ60)

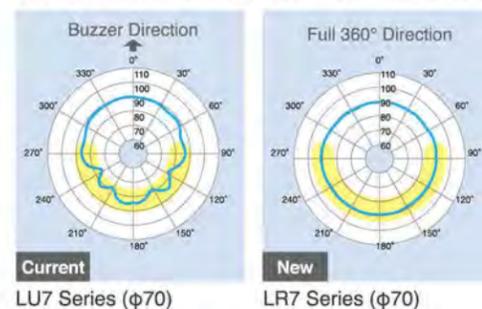
More than Twice the Light Output *

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

* Based on the φ60 Red LED Model

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.



Current LU7 Series (φ70) New LR7 Series (φ70)



(Buzzer No.3) Rapid Hi-low Sound 2016Hz/3012Hz (Buzzer No.4) Sweep Sound 1000Hz - 4032Hz (changing)

New Sounds Heard Above the Noise

1 Alarm available, (2 or more available by special order) from 4 built-in buzzer sounds. Buzzer sounds No. 3 and No. 4 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 for use in quieter environments.

* Four Buzzer Sounds

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



Modular System Design

Traditional stack lights typically require additional threaded shafts or tools to reconfigure LED units. The LR modular system design redefines signal tower assembly by making customization and repair seamless.



Reorganizing Modules is Effortless

The LR modular system makes reconfiguring the color order simple with its twist-and-lock design. Replacing and reconfiguring LED units or adding a buzzer module is easier than ever.

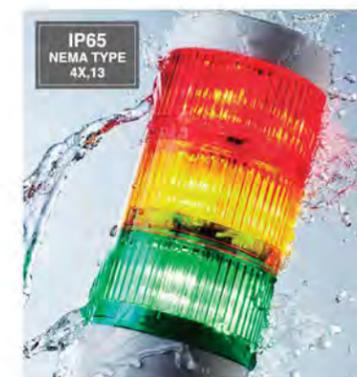


Scan to see this in action



Smooth Surface

The LR base, LED units and buzzer modules secure together tight and flush, creating a smooth surface, ideal for easy cleaning and water run off.



Environmental Performance

Features a rugged structure with the following ratings: IP65 / NEMA Type 4x, 13 withstands various environmental conditions, such as water and dust.



Upgraded Materials

Upgrading from an ABS to Polycarbonate material, and silicon resin O-rings, results in a more lightweight, shock and water resistant product.



Cable wire included



New Lineup

Clear-globe LED Unit

LR4-E-RZ

- 4 (φ40) R (Red)
- 5 (φ50) Y (Amber)
- 6 (φ60) G (Green)
- B (Blue)



LR4 LR5 LR6

Clear globes for R,Y,G,B

Individual Unit
Pre-assembled*
* LR4, LR6 Only

Multi-color LED Unit

LR6-E-MZ

7 colors



Individual Unit

It displays 7 colors in one unit.
(Red/Green/Blue/Amber/
Cyan/Purple/White)

Wire Color	Red	Red/ Green	Blue	Green	Blue/ Green	Red/ Blue	Red/ Green/ Blue
LED Color	Red	Amber	Blue	Green	Cyan	Purple	White

Direct Mount with M12 Connector

Pre-assembled Model

Model	Tiers	Rated Voltage	Mounting Wiring	Buzzer	Body Color	LED Unit Color
LR 6 - 3	02	WC	N	W	-	RYG

Unit Model: LR 6 - 02 WC N W
Body Unit: LR 6 - 02 WC N W

6 680 1 5 Tiers 02 24V DC B Buzzer N No Buzzer W Off-white
WC Direct Mount / M12 Connector

LED Color: R (Red) / Y (Amber) / G (Green) / B (Blue) / C (White) (From top to bottom)

Direct Mount Installation

Direct Mount
Easy Wiring
The M12 connection type provides a convenient, single cable mating point.

Easy direct-mount installation
If one hole is placed in the mounting position, it can easily be attached.

* The M12 Conne & Cable (SZ-120) sold separately.

Installation Method 2

Pole Mount
1/2" NPT Support Bracket is designed to fit a 1/2 inch NPT threaded pipe.

1/2" NPT

Manual Control Signal Tower

HSST-3M2-RYG

Clear-globe Type

Mounting Image

Assembly Process

What is HSST?

It is a kit featuring an LR5 Signal Tower, a switch box, AC/DC adaptor, and mounting hardware. This system can be used for a wide range of applications such as, improving efficiency of production assembly lines and discreet communications in call centers.

Assembly Line Lighting Display Example

- Problem Occurred
- Low Material Stock
- Need Assistance

Customer Support / Call Center

Call Status Display

- Need a Manager
- On Hold
- On Call

Visit bit.ly/HSST50mm for more information

Rated Voltage	Size	Operating Specifications	Tiers	Model	Color
100V - 240V AC	φ50	Switch ON/OFF Lighting Control	3	HSST-3M2-RYG	Clear Red/Amber/Green

Wireless Data Acquisition System

Transmitters

Signal Tower LR6 Transmitter
WDT-6LR-Z2

Corresponding Model: LR6 Series

Current Consumption: max.55mA

Transmission Distance: 20m*2

Signal Tower LR5 Transmitter
WDT-5LR-Z2

Corresponding Model: LR5 Series

Current Consumption: max.55mA

Transmission Distance: 20m*2

Receiver

Receiver
WDR-LE-Z2

Number of Transmitters: 20 Units*1
MAX 30 Units

Connection Type: LAN/USB

Transmission Distance: typ.65mA

Multiple Units*3

- *1 Radio signal quality will depend on the environment, device location and number of connections.
- *2 Due to the characteristic of radio waves, the connection distances are reference values.
- *3 Two or more receiver units can operate simultaneously with LAN connections.
(Ask your PATLITE Sales Representative for details.)

Monitor and Acquire Critical Equipment Data

1. Signal Tower with WD transmitter installs easily on equipment.
2. WD receiver acts as a data bridge between transmitters and PCs.
3. Receive raw equipment data for export to CSV file.

Send status information wirelessly
Information data is securely transmitted from LR Signal Towers

Receiver: WDR-LE-Z2

LAN/USB

Visit bit.ly/WD_Receiver for more information

LR5/LR7 Screwless Terminal Direct Mount

Dual mount base unit allows for direct or pole mounting

φ50 Body Unit: LR5-02KT[N/W/U/K]

φ70 Body Unit: LR7-02KT[N/W/U/K]

Installation Kit Included:

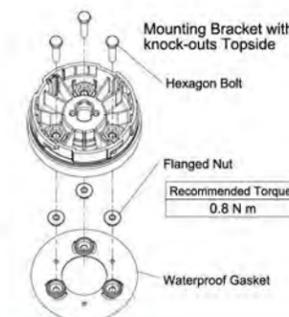
LR5 - KT	LR7 - KT
Hexagon Bolt (M3 x 20) 3 pcs.	Hexagon Bolt (M4 x 20) 3 pcs.
Hexagon Nut with Flange (M3) 6 pcs.	Hexagon Nut with Flange (M4) 6 pcs.

Accessory:

- Hexagon Bolt
- Hexagon Nut with Flange
- Waterproof Gasket

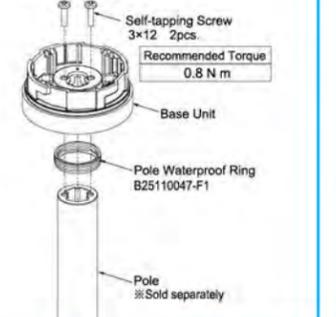
Installation Method 1

Direct Mount
Knock out holes, insert hexagonal bolts, secure with nuts.



Installation Method 2

Pole Mount
Insert waterproof ring on pole, align holes on pole with holes in bracket, secure pole with self-tapping screw.



*Please refer to the Complete Operation Manual for installation details.

Signal Tower

LR Series Pre-assembled Models

φ40mm Model Code (Ex.) **LR4-502WJBW-RYGBCZ**

Model ① ② ③ ④ ⑤ ⑥ ⑦

① Tiers ② Rated Voltage ③ Mounting/Wiring ④ Flashing/Buzzer ⑤ Body Color ⑥ LED Module Color ⑦ Globe Type

1 = 1 Tier 02 = 24V DC WJ = Direct Mount/Cable B = With Flashing/Buzzer W = Off-white R = Red Blank = Color Globe
 2 = 2 Tiers M2 = 100 - 240V AC¹ LJ = Pole Mount with L-bracket/Cable N = No Flashing/Buzzer U = Silver² Y = Amber Z = Clear Globe
 3 = 3 Tiers PJ = Pole Mount with Circular Bracket/Cable G = Green B = Blue
 4 = 4 Tiers QJ = Pole Mount with Folding Bracket/Cable³ C = White
 5 = 5 Tiers

¹ For WJ, LJ (no CE), and PJ type only. ² For 24V DC and Off-white type only. ³ For 24V DC type WJ, LJ and PJ type only.

φ50mm Model Code (Ex.) **LR5-502WJBW-RYGBCZ**

Model ① ② ③ ④ ⑤ ⑥ ⑦

① Tiers ② Rated Voltage ③ Mounting/Wiring ④ Flashing/Buzzer ⑤ Body Color ⑥ LED Module Color ⑦ Globe Type

1 = 1 Tier 01 = 12V DC WJ = Direct Mount/Cable B = With Flashing/Buzzer W = Off-white R = Red Blank = Color Globe
 2 = 2 Tiers 02 = 24V DC LJ = Pole Mount with L-bracket/Cable N = No Flashing/Buzzer Y = Amber Z = Clear Globe
 3 = 3 Tiers PJ = Pole Mount with Circular Bracket/Cable G = Green B = Blue
 4 = 4 Tiers WC = Direct Mount/M12 Connector⁴ C = White
 5 = 5 Tiers

⁴ M is only available as MZ (with clear lens), and MZ type is only available as pre-assembled with 1 tier.

φ60mm Model Code (Ex.) **LR6-502WJBW-RYGBCZ**

Model ① ② ③ ④ ⑤ ⑥ ⑦

① Tiers ② Rated Voltage ③ Mounting/Wiring ④ Flashing/Buzzer ⑤ Body Color ⑥ LED Module Color ⑦ Globe Type

1 = 1 Tier 02 = 24V DC WJ = Direct Mount/Cable B = With Flashing/Buzzer W = Off-white R = Red Blank = Color Globe
 2 = 2 Tiers M2 = 100 - 240V AC¹ LJ = Pole Mount with L-bracket/Cable N = No Flashing/Buzzer U = Silver² Y = Amber Z = Clear Globe
 3 = 3 Tiers PJ = Pole Mount with Circular Bracket/Cable G = Green B = Blue
 4 = 4 Tiers QJ = Pole Mount with Folding Bracket/Cable³ C = White
 5 = 5 Tiers WC = Direct Mount/M12 Connector⁴ M = Multi Color⁴

¹ For WJ, LJ (no CE), and PJ type only. ² For 24V DC and Off-white type only. ³ For 24V DC type WJ, LJ and PJ type only. ⁴ M is only available as MZ (with clear lens), and MZ type is only available as pre-assembled with 1 tier.

φ70mm Model Code (Ex.) **LR7-502WJBW-RYGBC**

Model ① ② ③ ④ ⑤ ⑥

① Tiers ② Rated Voltage ③ Mounting/Wiring ④ Flashing/Buzzer ⑤ Body Color ⑥ LED Module Color

1 = 1 Tier 02 = 24V DC WJ = Direct Mount/Cable B = With 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	24V DC	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
		φ40	O	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
Standard Parts Included: 300mm Pole POLE22-0300AN Folding Bracket SZQ-001W Waterproof Ring B25110047-F1	24V DC	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
		φ60	O	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	12V DC	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
		φ50	O	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
Direct Mount	24V DC	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
				4	LR4-402WJNW[U]	4.0W	0.310kg/0.460kg
				5	LR4-502WJNW[U]	5.0W	0.345kg/0.495kg
		φ40	O	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
Direct Mount	24V DC	φ50	-	1	LR5-102WJNW	1.0W	0.240kg
				2	LR5-202WJNW	2.0W	0.280kg
				3	LR5-302WJNW	3.0W	0.360kg
				4	LR5-402WJNW	4.0W	0.360kg
				5	LR5-502WJNW	5.0W	0.400kg
		φ50	O	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
Direct Mount	24V DC	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
		φ60	O	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
Direct Mount	24V DC	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
		φ70	O	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
Direct Mount	100 - 240V AC	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
		φ40	O	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
Direct Mount	100 - 240V AC	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
		φ60	O	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	
Pole Mount with Circular Bracket (Also available in silver)	12V DC	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
Pole Mount with Circular Bracket (Also available in silver)	24V DC	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
Pole Mount with Circular Bracket (Also available in silver)	24V DC	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
Pole Mount with Circular Bracket (Also available in silver)	24V DC	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
Pole Mount with Circular Bracket (Also available in silver)	100 - 240V AC	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				

Standard Parts Included:
300mm Pole
POLE22-0300AN
Circular-Bracket
SZP-003[WU]
Waterproof Ring
B25110047-F1

Mounting Type	Rated Voltage	Size	Flash/Buzzer	Tiers	Model	Power Consumption	Mass	
Pole Mount with L-bracket	12V DC	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
Pole Mount with L-bracket	24V DC	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		
Pole Mount with L-bracket	24V DC	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
Pole Mount with L-bracket	24V DC	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
Pole Mount with L-bracket	100-240V AC*	φ40	-	1	LR4-1M2LJNW	1.5W	0.575kg	
				2	LR4-2M2LJNW	3.0W	0.610kg	
				3	LR4-3M2LJNW	4.5W	0.645kg	
				4	LR4-4M2LJNW	6.0W	0.680kg	
				5	LR4-5M2LJNW	7.5W	0.715kg	
				O	1	LR4-1M2LJBW	3.0W	0.610kg
					2	LR4-2M2LJBW	4.5W	0.645kg
					3	LR4-3M2LJBW	6.0W	0.680kg
					4	LR4-4M2LJBW	7.5W	0.715kg
					5	LR4-5M2LJBW	9.0W	0.750kg
		φ60	-	1	LR6-1M2LJNW	1.5W	0.660kg	
				2	LR6-2M2LJNW	3.0W	0.720kg	
				3	LR6-3M2LJNW	4.5W	0.780kg	
				4	LR6-4M2LJNW	6.0W	0.840kg	
				5	LR6-5M2LJNW	7.5W	0.900kg	
O	1	LR6-1M2LJBW	3.0W	0.720kg				
	2	LR6-2M2LJBW	4.5W	0.780kg				
	3	LR6-3M2LJBW	6.0W	0.840kg				
	4	LR6-4M2LJBW	7.5W	0.900kg				
	5	LR6-5M2LJBW	9.0W	0.960kg				
Direct Mount With M12 Connector *Cable not included	24V DC	φ60	-	3	LR6-302WCNW	3.0W	0.350kg	

* Not suitable for KC (KN 61000-6-4, KN 61000-6-2) and Low Voltage Directive (TEC / EN 60947-5-1, EN 62471).

LR Series Modular Models

Select a Buzzer Unit (for Flashing / Buzzer function)

Size	Color	Model
φ40		LR4-B□
φ50		LR5-B□
φ60		LR6-B□
φ70		LR7-B□

□...W: Off-white U: Silver K: Black

Select an LED Unit

Size	Color	Model
φ40		LR4-E-R/Y/G/B/C
		LR4-E-RZ/YZ/GZ/BZ CLEAR
φ50		LR5-E-R/Y/G/B/C
		LR4-E-RZ/YZ/GZ/BZ CLEAR
φ60		LR6-E-R/Y/G/B/C
		LR6-E-RZ/YZ/GZ/BZ CLEAR
φ70		LR7-E-R/Y/G/B/C
φ60		LR6-E-MZ Multi-color

Select a Body Unit

Mounting Type	Rated Voltage	Size	Model
	12V DC	φ50	LR5-01PJNW
		φ40	LR4-02PJNW[U]
	24V DC	φ50	LR5-02PJNW
		φ60	LR6-02PJNW[U]
	100 - 240V AC	φ40	LR4-M2PJNW
		φ60	LR6-M2PJNW
	12V DC	φ50	LR5-01LJNW
		φ40	LR4-02LJNW[U]
	24V DC	φ50	LR5-02LJNW
		φ60	LR6-02LJNW[U]
	100 - 240V AC	φ40	LR4-M2LJNW
		φ60	LR6-M2LJNW
	24V DC	φ40	LR4-02QJNW
		φ60	LR6-02QJNW

W = Off-white, U = Silver, K = Black

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 = 12V DC*^{#1}
02 = 24V DC
M2 = 100 - 240V AC*^{#2}
 - ③ Mounting/Wiring
WJ = Direct Mount/Cable
WT = Direct Mount/Terminal*^{#3}
KT = Knock-outs Mount/Terminal*^{#3}
WC = Direct Mount/M12 Connector*^{#4}
LJ = Pole Mount with L-bracket/Cable*^{#5}
PJ = Pole Mount with Circular Bracket/Cable*^{#5}
QJ = Pole Mount with Folding Bracket/Cable*^{#6}
 - ④ Flashing/Buzzer
N = No Flashing/Buzzer
 - ⑤ Body Color
W = Off-white
U = Silver*^{#7}
K = Black*^{#8}
- *#1 For LR5 models only
*#2 For WJ, LJ and PJ mounting with LR4 and LR6 models
*#3 For LR5, LR7 DC24V models only
*#4 For LR6 DC24V models only
*#5 For LR4, LR5 and LR6 models
*#6 For LR4 and LR6 DC24V Off-white models only
*#7 For LR4 and LR6 only
*#8 For LR5, LR7 models only

3 Easy Steps

1 Remove the headcover to setup the body unit

2 Attach from bottom to top, 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 the LR is to configure.

Mounting Type	Rated Voltage	Size	Model
	12V DC	φ50	LR5-01WJNW
		φ40	LR4-02WJNW[U]
	24V DC	φ50	LR5-02WJNW
		φ60	LR6-02WJNW[U]
	100 - 240V AC	φ40	LR4-M2WJNW
		φ60	LR6-M2WJNW
	24V DC	φ50	LR5-02WTNW[U][K]
		φ70	LR7-02WTNW[U][K]
	24V DC	φ50	LR5-02KTNW[U][K]
		φ70	LR7-02KTNW[U][K]
	24V DC	φ60	LR6-02WCNW

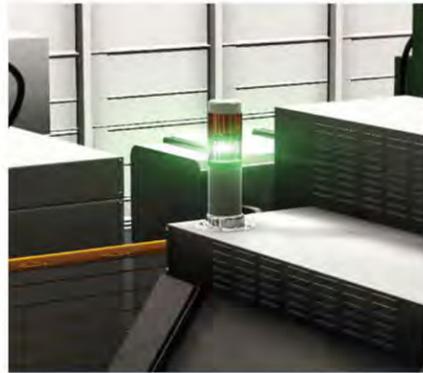
W = Off-white, U = Silver, K = Black

Removable Screwless Terminal

The terminal can be pulled out

LR Series Optional Parts

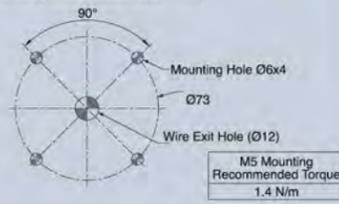
Direct Mount Brackets



Circular Bracket

Model: SZW-001W
Material: SPCE

Mounting Dimensions (Unit: mm)



Wall-mount Bracket

Model: SZK-002W/U/K
Material: PC

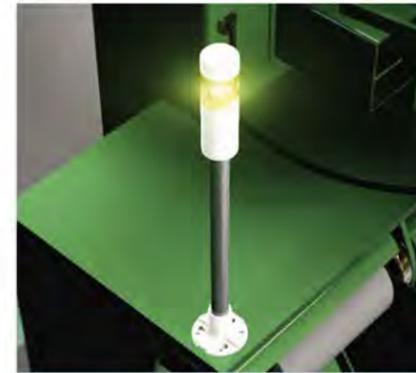
SZK-003W/U/K
Material: PC

SZK-004W
Material: PC

Mounting Dimensions (Unit: mm)



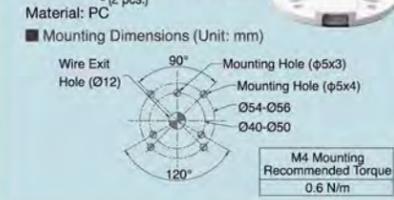
N Type Aluminum Pole Brackets



Circular Multiple-mount Bracket

Model: SZP-001W
Accessories: Waterproof Packing Pole Waterproof Ring Binding Head Tapping Screw - (2 pcs.)
Material: PC

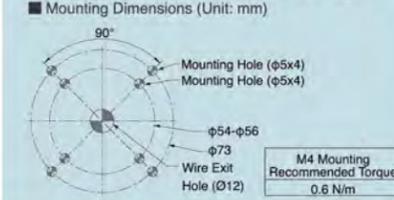
Mounting Dimensions (Unit: mm)



Circular Bracket

Model: SZP-002U
Accessories: Pole Waterproof Ring Binding Head Tapping Screw (2 pcs.)
Material: ADC12

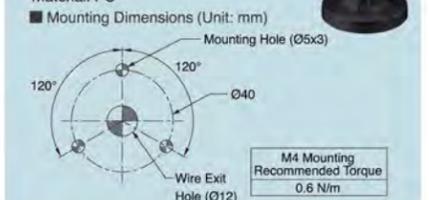
Mounting Dimensions (Unit: mm)



Circular Bracket

Model: SZP-003W/U/K
Accessories: Waterproof Packing Pole Waterproof Ring Binding Head Tapping Screw (2 pcs.)
Material: PC

Mounting Dimensions (Unit: mm)



N Type Aluminum Folding Brackets



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



2 Press the folding bracket forward and push about 15° in the clockwise direction.



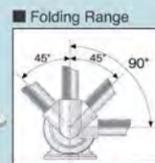
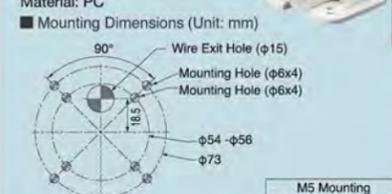
3 The folding bracket is pushed down to the right (clockwise) until it locks in place with a "Click!" sound.



Folding Bracket

Model: SZQ-001W
Accessories: Pole Waterproof Ring Binding Head Tapping Screw - (2 pcs.)
Material: PC

Mounting Dimensions (Unit: mm)



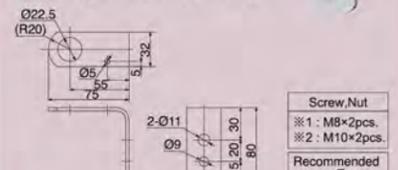
T Type Aluminum Pole Brackets



L-bracket

Model: SZL-001
Material: SPHC-P

Mounting Dimensions (Unit: mm)



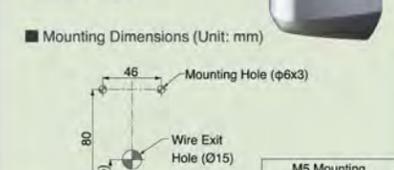
N & T Aluminum Pole Brackets



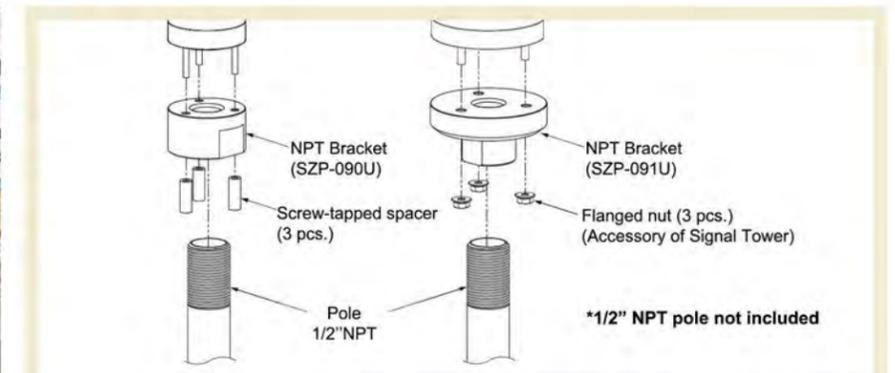
Wall-mount Bracket

Model: SZK-001U
Accessories: Hexagon Socket Set Screw (2 pcs.)
Material: ADC12

Mounting Dimensions (Unit: mm)



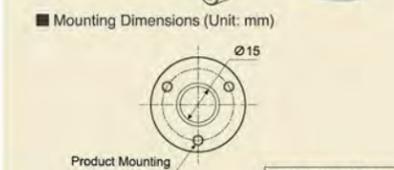
1/2" NPT Pipes Pole Brackets



1/2" NPT Bracket

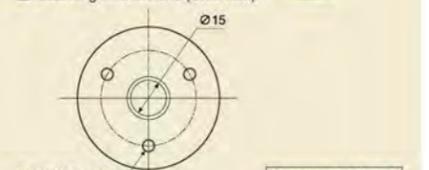
Model: SZP-090U
Accessories: Screw-tapped spacer (3 pcs.)
Material: AL

Mounting Dimensions (Unit: mm)



Model: SZP-091U
Material: AL

Mounting Dimensions (Unit: mm)



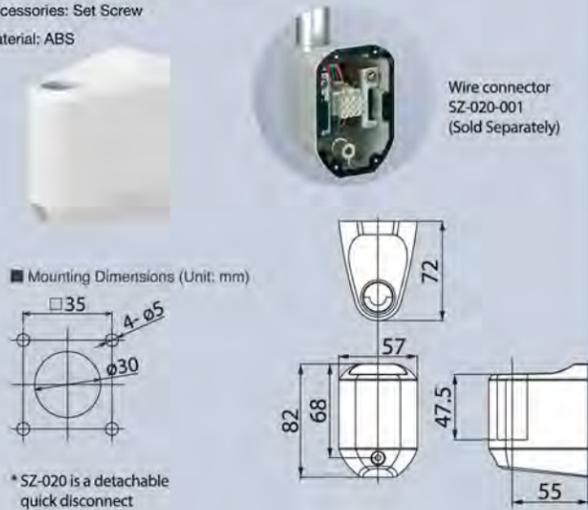
Signal Tower

LR Series Optional Parts

N & T Aluminum Pole Brackets

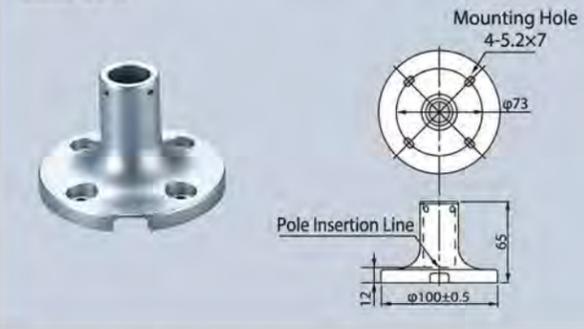
Wall-mount Bracket

Model: **SZ-020** For $\phi 21.7$ mm Pole
Accessories: Set Screw
Material: ABS



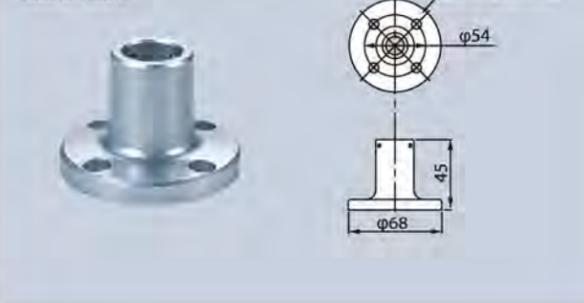
Circular Bracket

Model: **SZ-010** For $\phi 21.7$ mm Pole
Accessories: Hexagon socket set screws (2 pcs.)
Material: ADC12



Circular Bracket

Model: **SZ-016A** For $\phi 21.7$ mm Pole
Accessories: Rubber bushing, Water proof sheet, Hexagon socket set screws (2 pcs.)
Material: ADC12



NPT Bracket



Replacement Parts

■ O-ring (5 per pack)/Headcover

O-ring 40 Model: B25110065-F1	Headcover 40 Model: [W] B32310070-7F1 [U] B32310070-9F1	O-ring 50 Model: B25110066-F1	Headcover 50 Model: [W] B32310071-7F1 [K] B32310071-8F1 [U] B32310071-9F1	O-ring 60 Model: B25110067-F1	Headcover 60 Model: [W] B32310072-7F1 [U] B32310072-9F1	O-ring 70 Model: B25110068-F1	Headcover 70 Model: [W] B32310073-7F1 [K] B32310073-8F1 [U] B32310073-9F1
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■ Base Unit

Adaptor for Aluminum Pole
O-ring, Binding Head Tapping Screw for pole fixing and Pole Waterproof Ring are included.

LR4 Model: [W] B22210159-7F1 [U] B22210159-9F1	LR5 Model: [W] B22210160-7F1 [K] B22210160-8F1 [U] B22210160-9F1	LR6 Model: [W] B22210161-7F1 [U] B22210161-9F1	LR7 Model: [W] B22210178-7F1 [K] B22210178-8F1 [U] B22210178-9F1
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■ Terminal Block (LR5 & LR7 only)
Model: Z69544511-F1

■ Filter Sheet (5 per pack)

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
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■ Pole Waterproof Ring
Model: B25110047-F1

Signal Tower

Optional Parts and Poles

Optional Mounting Brackets (For Poles)

Model	Model Name	IP	LR4	LR5	LR6	LR7
	SZP-001W	65	PJ, QJ	PJ, KT *1	PJ, QJ	KT *1
	SZP-002U	20	PJ, QJ	PJ, KT *1	PJ, QJ	KT *1
	SZP-003W[U][K]	65	PJ, QJ	PJ, KT *1	PJ, QJ	KT *1
	SZL-001	54	LJ	LJ, KT *1	LJ	LJ, KT *1
	SZQ-001W	65	PJ, QJ	PJ, KT *1	PJ, QJ	KT *1
	SZK-001U	20	PJ, QJ	PJ, KT *1	PJ, QJ	KT *1
	SZ-020	54	PJ, QJ	PJ, KT *1	PJ, QJ	KT *1
	SZ-016A	20	PJ, QJ	PJ, KT *1	PJ, QJ	KT *1
	SZ-010	20	PJ, QJ	PJ, KT *1	PJ, QJ	KT *1
	SZ-904	20	LJ	LJ, KT *1	LJ	LJ, KT *1

Optional Mounting Brackets (Without Poles)

	SZP-090U	-	WJ	WJ, WT, KT *2	-	-
	SZP-091U	-	-	-	WJ	WJ, WT, KT *2
	SZK-002W[U][K]	65	WJ	WJ, WT, KT *2	-	-
	SZK-003W[U][K]	65	-	-	WJ	WJ, WT, KT *2
	SZK-004W	65	-	-	WJ	WJ, WT, KT *2
	SZW-001W	-	WJ	WJ, WT, KT *2	WJ	-

*1 Required pole and pole waterproof ring are not included with KT. *2 KT Direct Mount (Using accessory)

Optional Aluminum Poles

Model Type	Model Name	SZP-001W IP65	SZP-002U IP20	SZP-003W IP65	SZQ-001W IP65	SZK-001U IP20	SZL-001 IP54	SZ-020 IP54	SZ-010 IP20	SZ-016A IP20	SZ-904
N Type	POLE22-0100AN[K] 100mm	○	○	○	○	○	×	○	○	○	×
	POLE22-0300AN[K] 300mm	○	○	○	○	○	×	○	○	○	×
	POLE22-0500AN 500mm	×	○	×	×	○	×	○	○	○	×
T Type	POLE22-0800AN[K] 800mm	×	○	×	×	○	×	○	○	○	×
	POLE22-1000AN 1000mm	×	○	×	×	○	×	○	○	○	×
	POLE22-0100AT 100mm	×	×	×	×	○	○	○	○	×	○
	POLE22-0300AT 300mm	×	×	×	×	○	○	○	○	×	○
	POLE22-0500AT 500mm	×	×	×	×	○	○	○	○	×	○
	POLE22-0800AT 800mm	×	×	×	×	○	○	○	○	×	○
	POLE22-1000AT 1000mm	×	×	×	×	○	○	○	○	×	○

Note: Two self-tapping pole mounting screws included. To convert from direct mount to pole mount, be sure to purchase the appropriate bracket and pole combination.

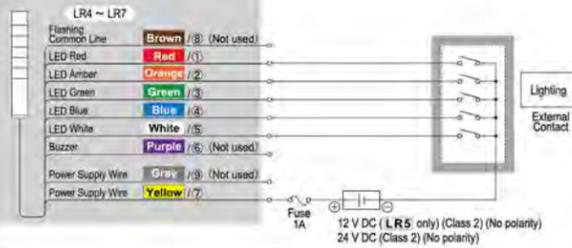
Wiring Diagrams

■ Wire Type & Wire Gauge
 Wire Type : UL2464
 Wire Gauge : [01] 12V DC [02] 24V DC
 Signal Wire : AWG24
 Power Supply Wire : AWG24

Product Specifications **01** 12V DC **02** 24V DC

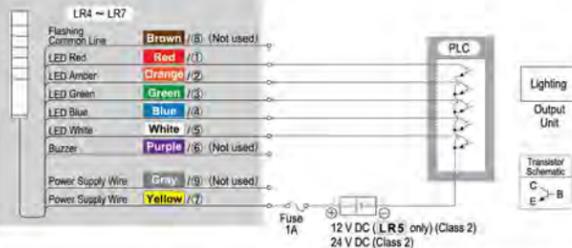
External Contact Classification

Voltage Contact Relay



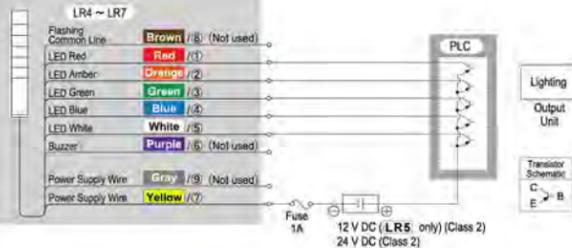
External Contact Classification

PLC (NPN Transistor)



External Contact Classification

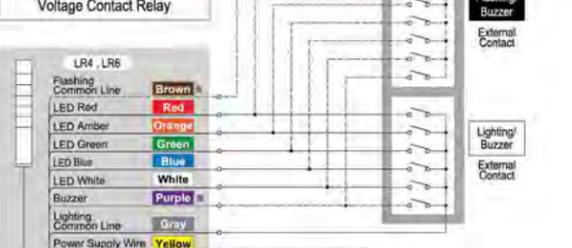
PLC (PNP Transistor)



Product Specifications **M2** 100 - 240 V AC

External Contact Classification

Voltage Contact Relay

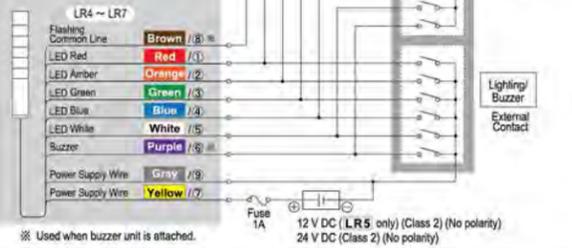


Wiring Example Index
LED Red (RED) / ①
 Function Name: Lead Wire Color (Cable type) Pin No. **WT** Direct Mount with Terminal Block, **KT** Mounting Bracket with knock-out Terminal Block
*Notes: The lead wire color does not indicate the LED Impedance Color. Refer to pg. 16 "Terminal Block Array"

Product Specifications **01** 12V DC **02** 24V DC

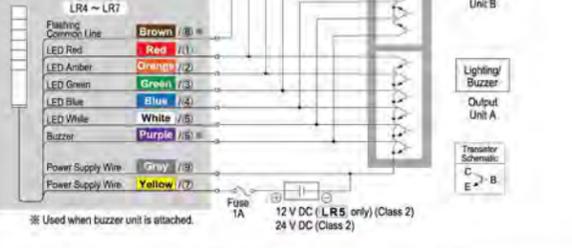
External Contact Classification

Voltage Contact Relay



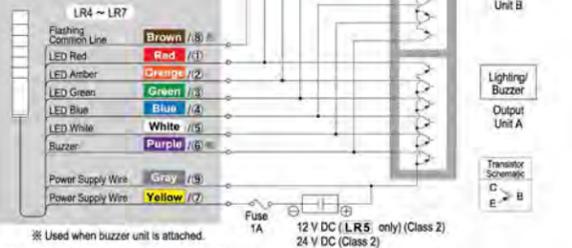
External Contact Classification

PLC (NPN Transistor)



External Contact Classification

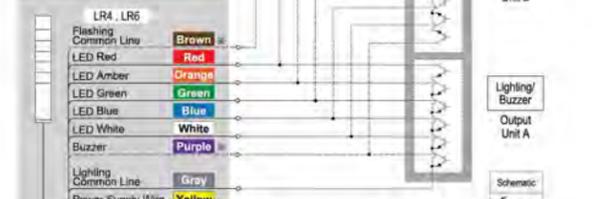
PLC (PNP Transistor)



■ Wire Type & Wire Gauge
 Wire Type : UL2464
 Wire Gauge : [M2] 100~240V AC
 Signal Wire : AWG24
 Power Supply Wire : AWG18

External Contact Classification

PLC (NPN Transistor)



Multi-color Wiring Diagrams

Multi-color LED Unit wire colors are **RED** / ①; **Green** / ③; **Blue** / ④. Wire colors **Orange** / ② and **White** / ⑤ are not used.
 Refer to the Complete User's Manual for details.

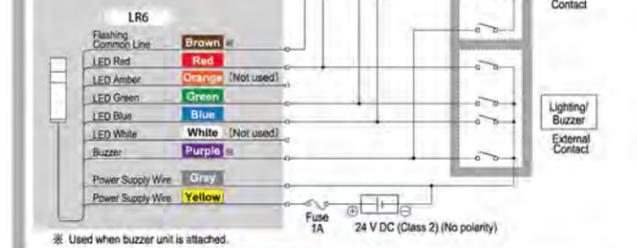
LED Color	Wire Color
Red	Red
Green	Green
Blue	Blue
Amber	Red + Green
Purple	Red + Blue
Cyan	Green + Blue
White	Red + Green + Blue

Lighting / Flashing / Buzzer (LR6-E-MZ)

Product Specifications **02** 24V DC

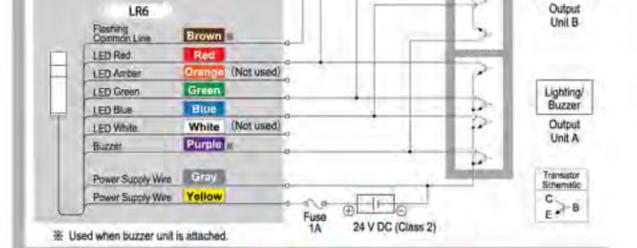
External Contact Classification

Voltage Contact Relay



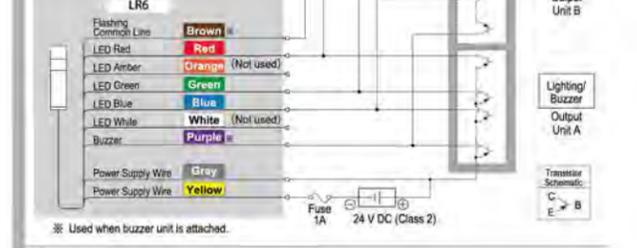
External Contact Classification

PLC (NPN Transistor)



External Contact Classification

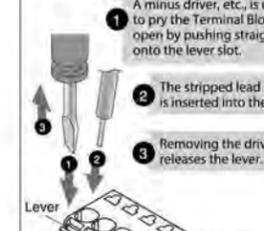
PLC (PNP Transistor)



Point
 • When flashing the LR6-E-MZ simultaneously with the LR6-E-R(Z)/Y(Z)/G(Z)/B(Z)/C, the flashing cycle of the LR6-E-MZ may shift from the other LED units.

[WT],[KT] Terminal Type

Wiring Method



Terminal Block Array

9	Black	Power (Signal)
8	Gray	Flashing Common
7	Yellow	Power (Common)
6	Gray	Buzzer
5	White	LED White
4	Blue	LED Blue
3	Green	LED Green
2	Orange	LED Yellow
1	Red	LED Red

Recommended lead wire specification
 Wire Type Wire (Solid) Wire (Frayed)
 UL1007 / UL1430 0.14 - 1.5mm AWG30 - 14
 • Temperature rating should be above 75°C, and the conductor material should be of copper wire.

M12 (LR6-WC) Wiring Diagrams

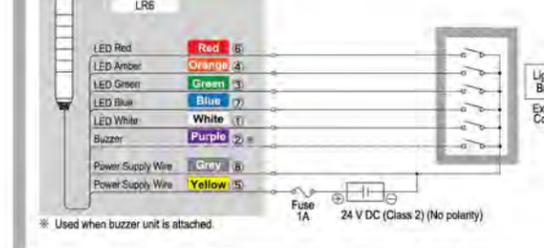
Wiring Example Index
LED Red (RED) / ⑥
 Function Name: PIN No. (**WC** Direct Mount with M12 Connector)

Lighting / Buzzer (LR6-WC)

Product Specifications **02** WC 24V DC

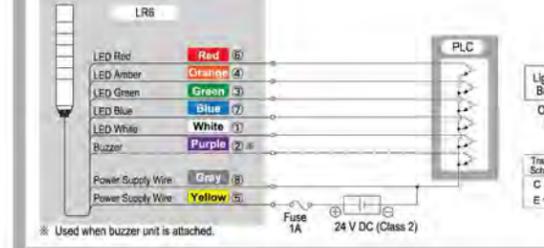
External Contact Classification

Voltage Contact Relay



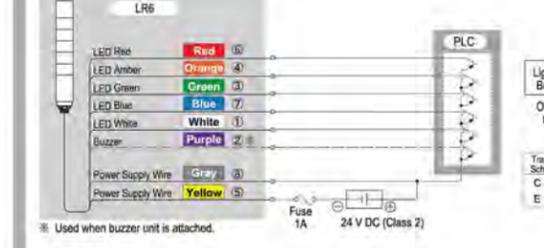
External Contact Classification

PLC (NPN Transistor)



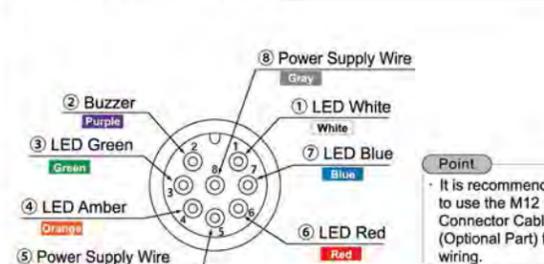
External Contact Classification

PLC (PNP Transistor)



Point
 • The flashing function cannot be used.

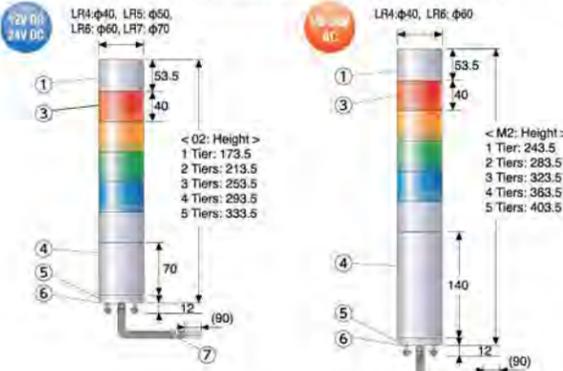
M12 Connector Pin Layout



Point
 • It is recommended to use the M12 Connector Cable (Optional Part) for wiring.

Outer Dimensional Drawing (Unit: mm)

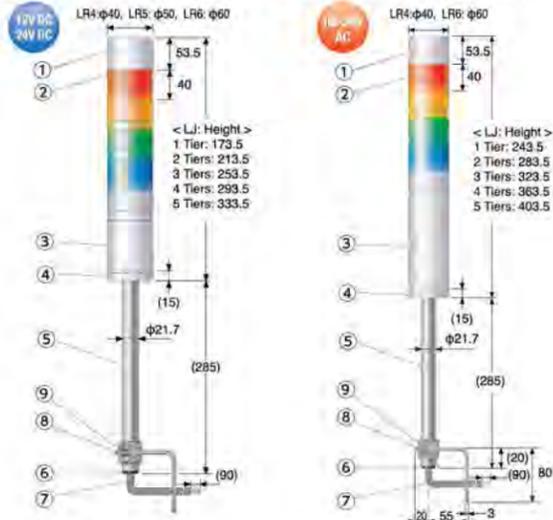
Mount A [WJ] Direct Mount/Cable
(01: 12V DC / 02: 24V DC) (M2: 100-240V AC)



Maximum Panel Thickness: 7
Cable Length: (1300)
U type: (3300)
Cable Diameter: φ7.5

No.	Description	Material
①	Buzzer Unit	PC
②	Head Cover	PC
③	LED 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: 12V DC / 02: 24V DC) (M2: 100-240V AC)



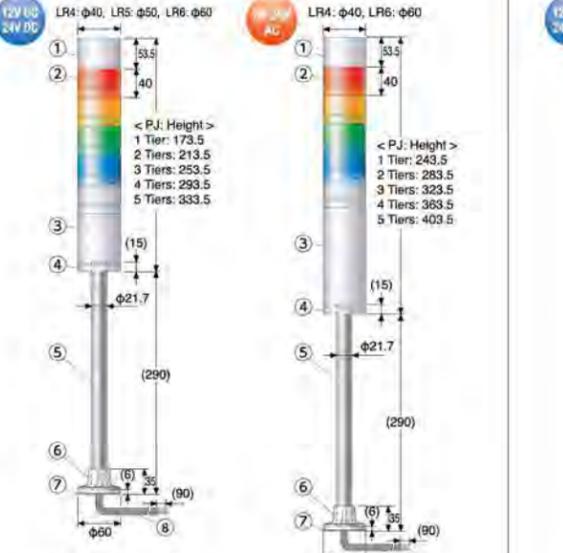
Cable Length: (1000)
U type: (3000)
Cable Diameter: φ7.5

No.	Description	Material
①	Buzzer Unit	PC
②	LED Unit	Globe: PC
③	Body	PC
④	Pole Bracket	PC
⑤	Pole	AL
⑥	Rubber Bushing	EPR Rubber
⑦	Cable	PVC
⑧	L-bracket	Steel
⑨	Hexagon Nut M22	SUM

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



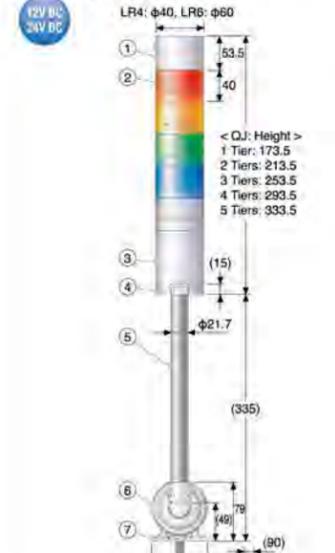
Mount A [PJ] Pole Mount with/Circular Bracket & Cable
(01: 12V DC / 02: 24V DC)
(M2: 100-240V AC)



Cable Length: (1000)
U type: (3000)
Cable Diameter: φ7.5

No.	Description	Material
①	Buzzer Unit	PC
②	LED Unit	Globe: PC
③	Body	PC
④	Pole Bracket	PC
⑤	Pole	AL
⑥	Circular Bracket	PC
⑦	Waterproof Packing	Silicon Rubber
⑧	Cable	PVC

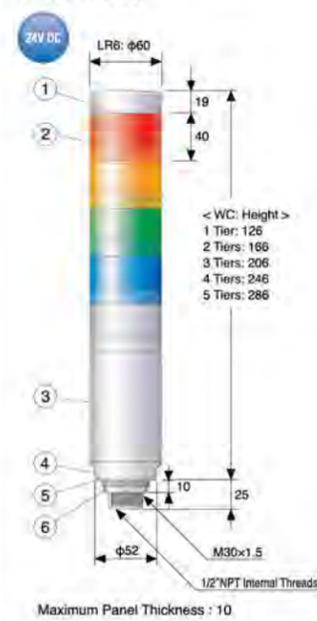
**Mount C [QJ] Pole Mount with/Folding
Bracket & Cable**
(02: 24V DC)



Cable Length: (950)
Cable Diameter: φ7.5

No.	Description	Material
①	Buzzer Unit	PC
②	LED Unit	Globe: PC
③	Body	PC
④	Pole Bracket	PC
⑤	Pole	AL
⑥	Folding Bracket	PC
⑦	Waterproof Packing	CR
⑧	Cable	PVC

**[WC] Direct Mount with
M12 Connector**
(02: 24V DC)



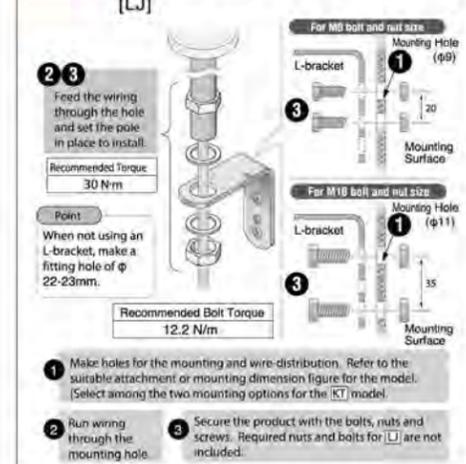
No.	Description	Material
①	Head Cover	PC
②	LED Unit	Globe: PC
③	Body	PC
④	Direct Mount Bracket	PC
⑤	Waterproof Packing (t=1)	Silicone Rubber
⑥	M30 Nut	PC

Mounting Dimensions (Unit: mm)

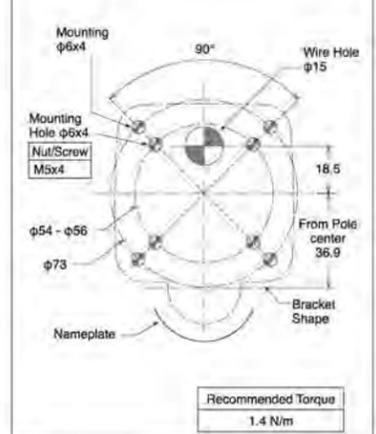
Mount A Mounting Diagram
[WJ] / [PJ] / [WT] / [KT]



Mount B Mounting Diagram
[LJ]



Mount C Mounting Diagram
[QJ]



Specifications

Operating Ambient Temperature	-20 ~ +50°C
Operating Ambient Humidity	Less than 90% RH (No Condensation)
Storage Ambient Temperature	-30 ~ +60°C
Storage Ambient Humidity	Less than 90% RH (No Condensation)
Mounting Location	Indoor Only
Mounting Direction	Upright
Protection Rating ^{*1}	IP65 (IEC 60529) / NEMA TYPE 4X, 13
Environmental Conditions	Upright
Insulation Resistance	More than 1MΩ at DC500V between live part and non-current carrying metallic part
Withstand Voltage	500V AC applied for 1 minute between live part and non-current carrying metallic part without breaking insulation (M2: 1500V AC for 1 min.)
Flash Rate	60 ±2 Flashes Per Minute
Sound Pressure Level	LR4 Typ. 85dB LR5 Typ. 85dB LR6 Typ. 88dB LR7 Typ. 90dB LR5 DC12V Typ. 80dB
Sound Reduction ^{*2}	Approx. -10dB
Environmental Conditions	Buzzer Sound No.4 was measured from the total circumference of the Buzzer Unit at 1m
Buzzer Sound	4 patterns ^{*2} No.1 Rapid Intermittent beep No.2 Continuous beep sound No.3 Rapid Hi-low No.4 Sweep sound
Transistor Output	NPN / PNP (100 ~ 240V AC 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)^{*3} Low-voltage Directive (IEC/EN 60947-5-1, EN62471)^{*4}

*1: LJ Type is IP54 *2: Dependent on DIP Switch Settings *3: Except KT and M2 LJ Type *4: M2 Type Only (Except LJ Type)

External Contact Capacity

Rated Load Voltage	Is:Current Capacity Vs:Withstand Voltage L:Leakage Current Ta:Ambient Temperature			
	01 12V DC	02 24V DC	M2 100 - 240V AC	
LED Unit (1 Tier)	Signal Wire Current (Max.) / Voltage	100mA / Power Supply Voltage	45mA / Power Supply Voltage	45mA / 24V DC
	Recommended Contact Capacity	Is ≥ 100mA Vs ≥ 20V DC ^{*1}	Is ≥ 100mA Vs ≥ 35V DC	Is ≥ 100mA Vs ≥ 35V DC
Buzzer	Signal Wire Current (Max.) / Voltage	250mA / Power Supply Voltage	250mA / Power Supply Voltage	250mA / 24V DC
	Recommended Contact Capacity	Is ≥ 300mA Vs ≥ 20V DC ^{*1}	Is ≥ 300mA Vs ≥ 35V DC	Is ≥ 300mA Vs ≥ 35V DC
Power Supply	Current Consumption (Max.)	500mA	250mA	150mA
	Recommended Contact Capacity	Is ≥ 700mA Vs ≥ 20VDC	Is ≥ 500mA Vs ≥ 35V DC	Inrush current or more contacts
Inrush Current	Signal Wire	LED None ^{*1} / Buzzer None	LED None / Buzzer None	None
	Power Supply Wire	0.7A / Less than 15ms	None	Ta=25°C : 25A / Less than 2ms (Cold-start) Ta=50°C : 50A / Less than 2ms (Cold-start)
Leakage Current				IL ≤ 0.1 mA

*1: When the () for [WJ] [LJ] [PJ] [QJ], Black / @ for [WT] [KT], @ for [WC] power supply wire is not connected, inrush current of 0.7A will flow through the signal wire. Recommended Contact Capacity : ≥ 700mA Vs ≥ 20VDC

LED Unit Specifications

Color	Red	Amber	Green	Blue	White	Multi-color
Rated Voltage	24V DC					
Current Consumption	Typ.	0.04A				
	Max.	0.045A				
Power Consumption	Typ.	1W				
	Max.	1.3W				
Conformity Standards	<ul style="list-style-type: none"> UL 508, CSA-C22.2 No.14 RoHS Directive (EN 50581) EMC Directive (EN 61000-6-4, EN 61000-6-2) 					

Buzzer Unit Specifications

Rated Voltage	24V DC	
Current Consumption	Typ.	0.04A
	Max.	0.3A
Power Consumption	Typ.	1W
	Max.	1.3W
Conformity Standards	<ul style="list-style-type: none"> UL 508, CSA-C22.2 No.14 RoHS Directive (EN 50581) EMC Directive (EN 61000-6-4, EN 61000-6-2) FCC Part 15 Subpart B Class A 	

LR Series Compatibility Chart (φ40 - φ50)

Current Models					Succeeding Models			
Series	Voltage	Installation Type	Buzzer	Model	Model	Comment	Installation Pitch	Fixed Wiring Hole
LCE-(A) φ40	24V AC/DC	Direct Mount	○	LCE-102(A)FBW	LR4-102WJBW		○	×
				LCE-202(A)FBW	LR4-202WJBW		○	×
				LCE-302(A)FBW	LR4-302WJBW		○	×
				LCE-402(A)FBW	LR4-402WJBW		○	×
				LCE-502(A)FBW	LR4-502WJBW		○	×
		Pole Mount (L-bracket)	×	LCE-102(A)W	LR4-102WJNW		○	×
				LCE-202(A)W	LR4-202WJNW		○	×
				LCE-302(A)W	LR4-302WJNW		○	×
				LCE-402(A)W	LR4-402WJNW		○	×
				LCE-502(A)W	LR4-502WJNW		○	×
		Pole Mount (Wall-mount Bracket)	○	LCE-102(A)FB	LR4-102LJBW		○	○
				LCE-202(A)FB	LR4-202LJBW		○	○
				LCE-302(A)FB	LR4-302LJBW		○	○
				LCE-402(A)FB	LR4-402LJBW		○	○
				LCE-502(A)FB	LR4-502LJBW		○	○
	90 - 250V AC	Direct Mount	○	LCE-1M2(A)FBW	LR4-1M2WJBW		○	×
				LCE-2M2(A)FBW	LR4-2M2WJBW		○	×
				LCE-3M2(A)FBW	LR4-3M2WJBW		○	×
				LCE-4M2(A)FBW	LR4-4M2WJBW		○	×
				LCE-5M2(A)FBW	LR4-5M2WJBW		○	×
		Pole Mount (L-bracket)	×	LCE-1M2(A)W	LR4-1M2WJNW		○	×
				LCE-2M2(A)W	LR4-2M2WJNW		○	×
				LCE-3M2(A)W	LR4-3M2WJNW		○	×
				LCE-4M2(A)W	LR4-4M2WJNW		○	×
				LCE-5M2(A)W	LR4-5M2WJNW		○	×
		Pole Mount (L-bracket)	○	LCE-1M2(A)FB	LR4-1M2LJBW		○	○
				LCE-2M2(A)FB	LR4-2M2LJBW		○	○
				LCE-3M2(A)FB	LR4-3M2LJBW		○	○
				LCE-4M2(A)FB	LR4-4M2LJBW		○	○
				LCE-5M2(A)FB	LR4-5M2LJBW		○	○
LCS-(A) φ40	24V AC/DC	Pole Mount (L-bracket)	×	LCS-102(A)	LR4-102LJNW		○	○
				LCS-202(A)	LR4-202LJNW		○	○
				LCS-302(A)	LR4-302LJNW		○	○
				LCS-402(A)	LR4-402LJNW		○	○
				LCS-502(A)	LR4-502LJNW		○	○
	Wall-mount Bracket	×	LCS-102(A)K	LR4-102PJNW		×	×	
			LCS-202(A)K	LR4-202PJNW		×	×	
			LCS-302(A)K	LR4-302PJNW		×	×	
			LCS-402(A)K	LR4-402PJNW		×	×	
			LCS-502(A)K	LR4-502PJNW		×	×	
LE φ50	12V AC/DC	Direct Mount	○	LE-101FBW	LR5-101WJBW		○	×
				LE-201FBW	LR5-201WJBW		○	×
				LE-301FBW	LR5-301WJBW		○	×
				LE-401FBW	LR5-401WJBW		○	×
				LE-501FBW	LR5-501WJBW		○	×
		Pole Mount (L-bracket)	×	LE-101W	LR5-101WJNW		○	×
				LE-201W	LR5-201WJNW		○	×
				LE-301W	LR5-301WJNW		○	×
				LE-401W	LR5-401WJNW		○	×
				LE-501W	LR5-501WJNW		○	×
		Pole Mount (L-bracket)	○	LE-101FBP	LR5-101LJBW		○	○
				LE-201FBP	LR5-201LJBW		○	○
				LE-301FBP	LR5-301LJBW		○	○
				LE-401FBP	LR5-401LJBW		○	○
				LE-501FBP	LR5-501LJBW		○	○
Pole Mount (L-bracket)	×	LE-101P	LR5-101LJNW		○	○		
		LE-201P	LR5-201LJNW		○	○		
		LE-301P	LR5-301LJNW		○	○		
		LE-401P	LR5-401LJNW		○	○		
		LE-501P	LR5-501LJNW		○	○		

LR Series Compatibility Chart (φ50 - φ60)

Current Models					Succeeding Models				
Series	Voltage	Installation Type	Buzzer	Model	Model	Comment	Installation Pitch	Fixed Wiring Hole	
LE φ50	24V AC/DC	Direct Mount	○	LE-102FBW	LR5-102WJBW		○	×	
				LE-202FBW	LR5-202WJBW		○	×	
				LE-302FBW	LR5-302WJBW		○	×	
				LE-402FBW	LR5-402WJBW		○	×	
				LE-502FBW	LR5-502WJBW		○	×	
		Pole Mount (L-bracket)	×	LE-102W	LR5-102WJNW		○	×	
				LE-202W	LR5-202WJNW		○	×	
				LE-302W	LR5-302WJNW		○	×	
				LE-402W	LR5-402WJNW		○	×	
				LE-502W	LR5-502WJNW		○	×	
		100V AC / 220V AC	Direct Mount	○	LE-110FBW / LE-120FBW	LR4-1M2WJBW		○	×
					LE-210FBW / LE-220FBW	LR4-2M2WJBW		○	×
					LE-310FBW / LE-320FBW	LR4-3M2WJBW		○	×
					LE-410FBW / LE-420FBW	LR4-4M2WJBW		○	×
					LE-510FBW / LE-520FBW	LR4-5M2WJBW		○	×
	Pole Mount (L-bracket)		×	LE-110W / LE-120W	LR4-1M2WJNW		○	×	
				LE-210W / LE-220W	LR4-2M2WJNW		○	×	
				LE-310W / LE-320W	LR4-3M2WJNW		○	×	
				LE-410W / LE-420W	LR4-4M2WJNW		○	×	
				LE-510W / LE-520W	LR4-5M2WJNW		○	×	
	LES-A φ50	24V AC/DC	Direct Mount	×	LES-102AW	LR5-102WJNW		×	×
					LES-202AW	LR5-202WJNW		×	×
					LES-302AW	LR5-302WJNW		×	×
					LES-402AW	LR5-402WJNW		×	×
					LES-502AW	LR5-502WJNW		×	×
		Pole Mount (L-bracket)	×	LES-102A	LR5-102LJNW		○	○	
				LES-202A	LR5-202LJNW		○	○	
				LES-302A	LR5-302LJNW		○	○	
				LES-402A	LR5-402LJNW		○	○	
				LES-502A	LR5-502LJNW		○	○	
LU5 φ50	24V DC	Direct Mount	○	LU5-02FB	LR5-02WJNW		○	○	
LME φ60	24V AC/DC	Direct Mount	○	LME-102FBW	LR6-102WJBW		○	×	
				LME-202FBW	LR6-202WJBW		○	×	
				LME-302FBW	LR6-302WJBW		○	×	
				LME-402FBW	LR6-402WJBW		○	×	
				LME-502FBW	LR6-502WJBW		○	×	
		Pole Mount (Circular-mount Bracket)	×	LME-102W	LR6-102WJNW		○	×	
				LME-202W	LR6-202WJNW		○	×	
				LME-302W	LR6-302WJNW		○	×	
				LME-402W	LR6-402WJNW		○	×	
				LME-502W	LR6-502WJNW		○	×	
		Pole Mount (Circular-mount Bracket)	○	LME-102FB	LR6-102PJBW		○	×	
				LME-202FB	LR6-202PJBW		○	×	
				LME-302FB	LR6-302PJBW		○	×	
				LME-402FB	LR6-402PJBW		○	×	
				LME-502FB	LR6-502PJBW		○	×	
Pole Mount (Circular-mount Bracket)	×	LME-102	LR6-102PJNW		○	×			
		LME-202	LR6-202PJNW		○	×			
		LME-302	LR6-302PJNW		○	×			
		LME-402	LR6-402PJNW		○	×			
		LME-502	LR6-502PJNW		○	×			

LR Series Compatibility Chart (φ60 - φ70)

Current Models				Succeeding Models								
Series	Voltage	Installation Type	Buzzer	Model	Model	Comment	Installation Pitch	Fixed Wiring Hole				
LME φ60	24V AC/DC	Pole Mount (L-bracket)	○	LME-102FBL	LR6-102LJBW		○	○				
				LME-202FBL	LR6-202LJBW		○	○				
				LME-302FBL	LR6-302LJBW		○	○				
				LME-402FBL	LR6-402LJBW		○	○				
				LME-502FBL	LR6-502LJBW		○	○				
		Pole Mount (Wall-mount Bracket)	○	LME-102L	LR6-102LJNW		○	○				
				LME-202L	LR6-202LJNW		○	○				
				LME-302L	LR6-302LJNW		○	○				
				LME-402L	LR6-402LJNW		○	○				
				LME-502L	LR6-502LJNW		○	○				
	Pole Mount (Circular-mount Bracket)	○	○	LME-102FBK	LR6-102PJBW	Purchase SZK-001U option bracket additionally.	×	×				
				LME-202FBK	LR6-202PJBW		×	×				
				LME-302FBK	LR6-302PJBW		×	×				
				LME-402FBK	LR6-402PJBW		×	×				
				LME-502FBK	LR6-502PJBW		×	×				
				Direct Mount	○		○	LME-110FBW / LME-112FBW	LR6-1M2WJBW		○	×
								LME-210FBW / LME-212FBW	LR6-2M2WJBW		○	×
								LME-310FBW / LME-312FBW	LR6-3M2WJBW		○	×
LME-410FBW / LME-412FBW	LR6-4M2WJBW		○			×						
LME-510FBW / LME-512FBW	LR6-5M2WJBW		○			×						
×	○	○	LME-110W / LME-112W		LR6-1M2WJNW		○	×				
			LME-210W / LME-212W		LR6-2M2WJNW		○	×				
			LME-310W / LME-312W		LR6-3M2WJNW		○	×				
			LME-410W / LME-412W		LR6-4M2WJNW		○	×				
			LME-510W / LME-512W		LR6-5M2WJNW		○	×				
100V AC / 120V AC	Pole Mount (Circular-mount Bracket)	○	LME-110FB	LR6-1M2PJBW		○	×					
			LME-210FB	LR6-2M2PJBW		○	×					
			LME-310FB	LR6-3M2PJBW		○	×					
			LME-410FB	LR6-4M2PJBW		○	×					
			LME-510FB	LR6-5M2PJBW		○	×					
	×	○	○	LME-110	LR6-1M2PJNW		○	×				
				LME-210	LR6-2M2PJNW		○	×				
				LME-310	LR6-3M2PJNW		○	×				
				LME-410	LR6-4M2PJNW		○	×				
				LME-510	LR6-5M2PJNW		○	×				
220V AC / 230V AC	Pole Mount (L-bracket)	○	LME-110FBL	LR6-1M2LJBW	Does not comply with Low-voltage Directive (IEC/EN 60947-5-1, EN62471). No CE for M2LJ type.	○	○					
			LME-210FBL	LR6-2M2LJBW		○	○					
			LME-310FBL	LR6-3M2LJBW		○	○					
			LME-410FBL	LR6-4M2LJBW		○	○					
			LME-510FBL	LR6-5M2LJBW		○	○					
	×	○	○	LME-110L		LR6-1M2LJNW	○	○				
				LME-210L		LR6-2M2LJNW	○	○				
				LME-310L		LR6-3M2LJNW	○	○				
				LME-410L		LR6-4M2LJNW	○	○				
				LME-510L		LR6-5M2LJNW	○	○				
Direct Mount	○	○	LME-120FBW / LME-123FBW	LR6-1M2WJBW		○	×					
			LME-220FBW / LME-223FBW	LR6-2M2WJBW		○	×					
			LME-320FBW / LME-323FBW	LR6-3M2WJBW		○	×					
			LME-420FBW / LME-423FBW	LR6-4M2WJBW		○	×					
			LME-520FBW / LME-523FBW	LR6-5M2WJBW		○	×					
	×	○	○	LME-120W / LME-123W	LR6-1M2WJNW		○	×				
				LME-220W / LME-223W	LR6-2M2WJNW		○	×				
				LME-320W / LME-323W	LR6-3M2WJNW		○	×				
				LME-420W / LME-423W	LR6-4M2WJNW		○	×				
				LME-520W / LME-523W	LR6-5M2WJNW		○	×				
Pole Mount (Circular-mount Bracket)	○	○	LME-120FB	LR6-1M2PJBW		○	○					
			LME-220FB	LR6-2M2PJBW		○	○					
			LME-320FB	LR6-3M2PJBW		○	○					
			LME-420FB	LR6-4M2PJBW		○	○					
			LME-520FB	LR6-5M2PJBW		○	○					
	×	○	○	LME-120	LR6-1M2PJNW		○	○				
				LME-220	LR6-2M2PJNW		○	○				
				LME-320	LR6-3M2PJNW		○	○				
				LME-420	LR6-4M2PJNW		○	○				
				LME-520	LR6-5M2PJNW		○	○				
Pole Mount (L-bracket)	○	○	LME-120FBL	LR6-1M2LJBW	Does not comply with Low-voltage Directive (IEC/EN 60947-5-1, EN62471). No CE with M2LJ type.	○	○					
			LME-220FBL	LR6-2M2LJBW		○	○					
			LME-320FBL	LR6-3M2LJBW		○	○					
			LME-420FBL	LR6-4M2LJBW		○	○					
			LME-520FBL	LR6-5M2LJBW		○	○					
	×	○	○	LME-120L		LR6-1M2LJNW	○	○				
				LME-220L		LR6-2M2LJNW	○	○				
				LME-320L		LR6-3M2LJNW	○	○				
				LME-420L		LR6-4M2LJNW	○	○				
				LME-520L		LR6-5M2LJNW	○	○				

LR Series Compatibility Chart (φ60 - φ70)

Current Models				Succeeding Models						
Series	Voltage	Installation Type	Buzzer	Model	Model	Comment	Installation Pitch	Fixed Wiring Hole		
LMS φ60	24V AC/DC	Pole Mount (Circular-mount Bracket)	×	LMS-102	LR6-102PJNW		○	×		
				LMS-202	LR6-202PJNW		○	×		
				LMS-302	LR6-302PJNW		○	×		
				LMS-402	LR6-402PJNW		○	×		
				LMS-502	LR6-502PJNW		○	×		
		Pole Mount (L-bracket)	×	○	LMS-102L	LR6-102LJNW		○	○	
					LMS-202L	LR6-202LJNW		○	○	
					LMS-302L	LR6-302LJNW		○	○	
					LMS-402L	LR6-402LJNW		○	○	
					LMS-502L	LR6-502LJNW		○	○	
LHE-A φ70	24V AC/DC	Direct Mount	○	LHE-102AFB	LR7-102WJBW		○	×		
				LHE-202AFB	LR7-202WJBW		○	×		
				LHE-302AFB	LR7-302WJBW		○	×		
				LHE-402AFB	LR7-402WJBW		○	×		
				LHE-502AFB	LR7-502WJBW		○	×		
	100V AC / 120V AC	Direct Mount	○	LHE-102A	LR7-102WJNW		○	×		
				LHE-202A	LR7-202WJNW		○	×		
				LHE-302A	LR7-302WJNW		○	×		
				LHE-402A	LR7-402WJNW		○	×		
				LHE-502A	LR7-502WJNW		○	×		
220V AC	Direct Mount	○	LHE-110AFB / LHE-112AFB	LR6-1M2WJBW	Available for φ60 only.	○	×			
			LHE-210AFB / LHE-212AFB	LR6-2M2WJBW		○	×			
			LHE-310AFB / LHE-312AFB	LR6-3M2WJBW		○	×			
			LHE-410AFB / LHE-412AFB	LR6-4M2WJBW		○	×			
			LHE-510AFB / LHE-512AFB	LR6-5M2WJBW		○	×			
			24V DC	Direct Mount		○	LHE-110A / LHE-112A	LR6-1M2WJNW	○	×
							LHE-210A / LHE-212A	LR6-2M2WJNW	○	×
							LHE-310A / LHE-312A	LR6-3M2WJNW	○	×
							LHE-410A / LHE-412A	LR6-4M2WJNW	○	×
							LHE-510A / LHE-512A	LR6-5M2WJNW	○	×
90 - 250V AC	Direct Mount	○	LHE-120AFB	LR6-1M2WJBW	○	×				
			LHE-220AFB	LR6-2M2WJBW	○	×				
			LHE-320AFB	LR6-3M2WJBW	○	×				
			LHE-420AFB	LR6-4M2WJBW	○	×				
			LHE-520AFB	LR6-5M2WJBW	○	×				
LU7 φ70	24V DC	Direct Mount	○	LU7-02FB	LR7-02WTNW	Purchase LR7-BW additionally.	○	×		
				LU7-02	LR7-02WTNW		○	×		
LU7 φ70	90 - 250V AC	Direct Mount	○	LU7-M2FB	LR6-M2WJNW	Purchase LR6-BW additionally for φ60 size.	○	×		
				LU7-M2	LR6-M2WJNW	Available for φ60 only.	○	×		

