

Signal Tower **LR** Series



NEMA
Type 4X, 13



360° Buzzer



Easy-build

**2 year
Warranty**

Signal Tower

LR Series

Modular LED Signal Tower

ø40mm

LR4

ø50mm

LR5

ø60mm

LR6

ø70mm

LR7



Modular Components



Body Units



Buzzer Units



LED Units

Optional Parts



SZW-001W



SZK-002W/U



SZK-003W/U



SZP-001W



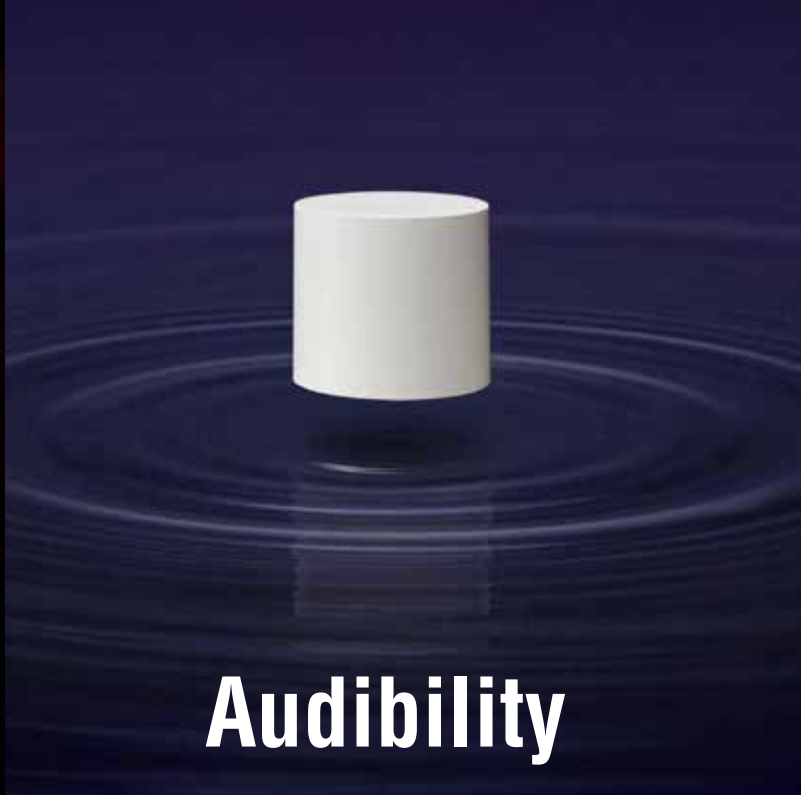
SZK-001U



SZP-002U



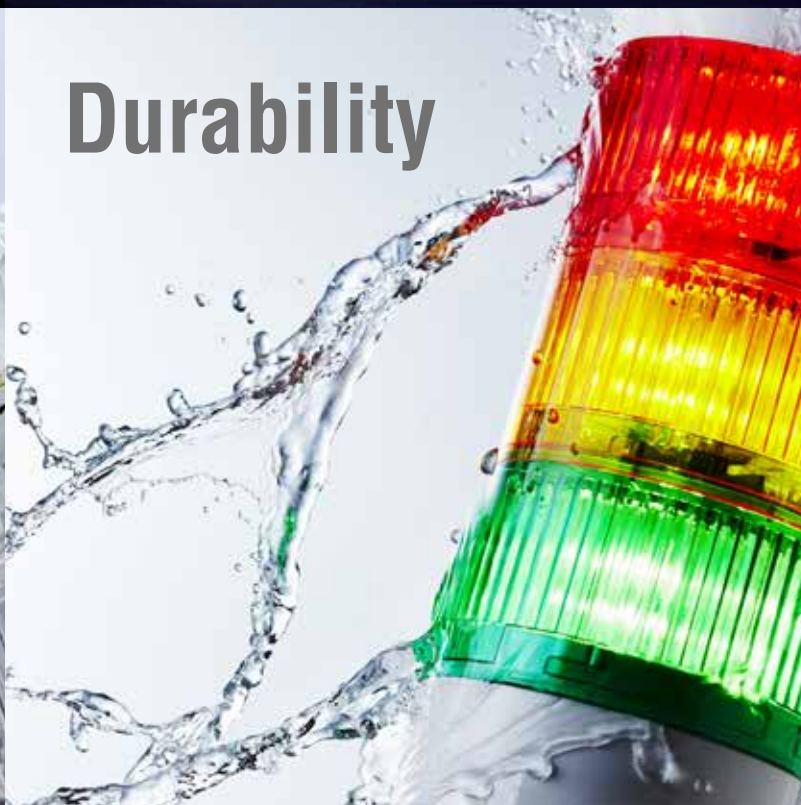
Visibility



Audibility



Simplicity



Durability

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Configurator

Scan the QR code to build an LR model



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

Visibility

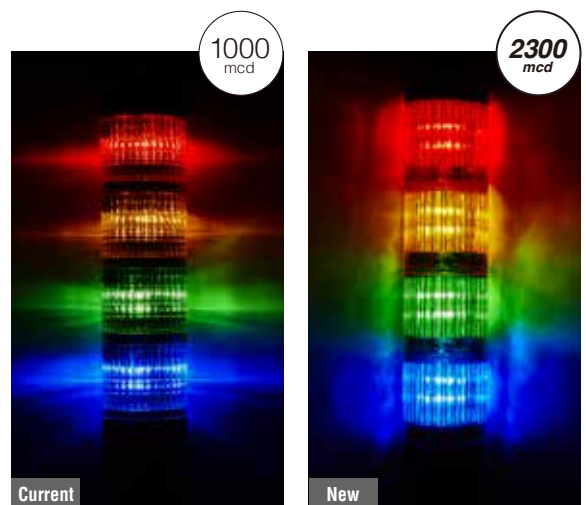
Exceptional Light Brilliance

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.



LCE-A Series (φ40)

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.

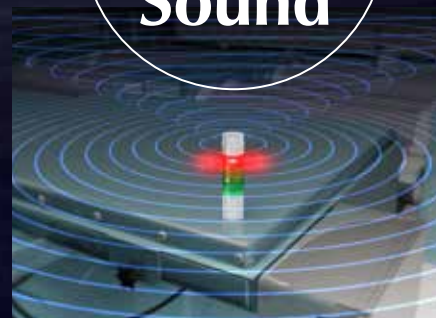
* Based on the φ40 Red LED Model

Audibility

No Holes, No Compromises

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

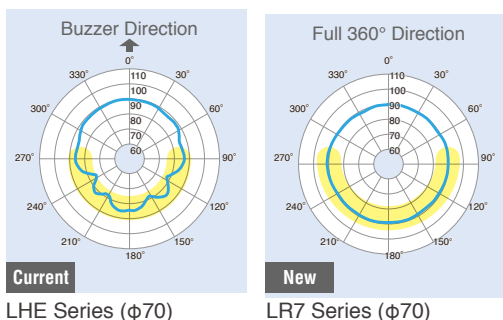
**360°
Sound**



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

The Industry's First Fully Enclosed Sound Module

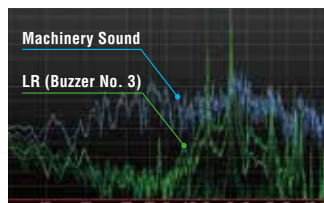
Inspired by a drum percussion instrument, the fully enclosed sound module is able to more efficiently vibrate sound waves, producing even 360° degree omnidirectional sound resonance. Resistance to water and dust is also increased.



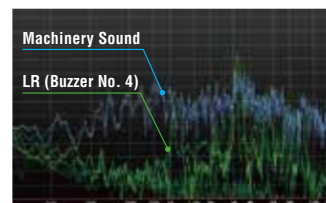
Maximum 90dB* output

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

*LR7 buzzer No.4 (Sweep tone)



(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

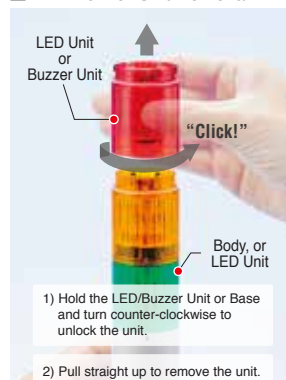
Simple "Twist and Lock" system makes it easy to customize and reconfigure light and sound modules.



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.

■ LED/Buzzer Unit Removal



■ LED Unit Attachment



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.



Scan to see this in action

Durability

Rugged Never Looked Better

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



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

**ø40mm
Model Code**

(Ex.) **LR4-502WJBW-RYGB C**

Model ① ② ③ ④ ⑤ ⑥

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

**ø50mm
Model Code**

(Ex.) **LR5-502WJBW-RYGB C**

Model ① ② ③ ④ ⑤ ⑥

① Tiers 1 = 1 Tier 2 = 2 Tiers 3 = 3 Tiers 4 = 4 Tiers 5 = 5 Tiers	② Rated Voltage 01 = DC12V 02 = DC24V	③ Mounting/Wiring WJ = Direct/Cable LJ = Pole Mount w/L'Bracket/Cable PJ = Pole Mount w/Circular Bracket/Cable	④ Flashing/Buzzer B = Flashing/Buzzer N = No Flashing/Buzzer	⑤ Body Color W = Off-white	⑥ LED Module Color R = Red Y = Amber G = Green B = Blue C = White
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**ø60mm
Model Code**

(Ex.) **LR6-502WJBW-RYGB C**

Model ① ② ③ ④ ⑤ ⑥

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









**ø70mm
Model Code**

(Ex.) **LR7-502WJBW-RYGB C**

Model ① ② ③ ④ ⑤ ⑥



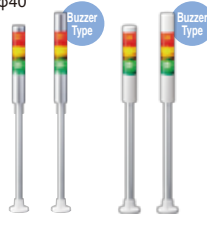

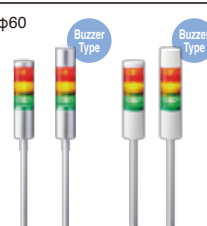




① Tiers 1 = 1 Tier 2 = 2 Tiers 3 = 3 Tiers 4 = 4 Tiers 5 = 5 Tiers	② Rated Voltage 02 = DC24V	③ Mounting/Wiring WJ = Direct/Cable	④ Flashing/Buzzer B = Flashing/Buzzer N = No Flashing/Buzzer	⑤ Body Color W = Off-white	⑥ LED Module Color R = Red Y = Amber G = Green B = Blue C = White
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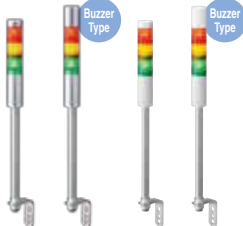

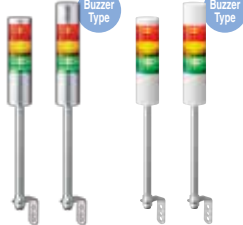
Mounting Type	Rated Voltage	Size	Flash/Buzzer	Tiers	Model	Power Consumption	Mass
 <p>Pole Mount w/ Angle Bracket</p>	DC24V	ø40 	—	1	LR4-102QJNW	1.0W	0.455kg
				2	LR4-202QJNW	2.0W	0.490kg
				3	LR4-302QJNW	3.0W	0.525kg
				4	LR4-402QJNW	4.0W	0.560kg
				5	LR4-502QJNW	5.0W	0.595kg
			O	1	LR4-102QJBW	2.0W	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
		ø60 	—	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
			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	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
			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
	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
			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
		φ50  *1 See pg.13 Black Body Available	—	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
			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
		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
			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
		φ70  *1 See pg.13 Black Body Available	—	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
			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
	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
			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
		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
			O	1	LR6-1M2WJBW	3.0W	0.440kg
				2	LR6-2M2WJBW	4.5W	0.500kg
				3	LR6-3M2WJBW	6.0W	0.560kg
			O	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
 <p>Pole Mount w/ Circular Bracket</p>	DC12V	$\phi 50$ 	—	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	$\phi 40$ 	—	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
		$\phi 50$ 	—	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
		$\phi 60$ 	—	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	$\phi 40$ 	—	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
		$\phi 60$ 	—	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
 <p>Pole Mount w/ 'L' Bracket</p>	DC12V	$\phi 50$ 	—	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
 Pole Mount w/ 'L' Bracket	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. Only a maximum of 5 LED units is possible.

Size	Color					Model	Power Consumption	Mass	
φ40	 Red	 Amber	 Green	 Blue	 White	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	 Amber	 Green	 Blue	 White	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	 Amber	 Green	 Blue	 White	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	 Amber	 Green	 Blue	 White	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. Products ordered with no buzzer can be purchased at a later date.

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

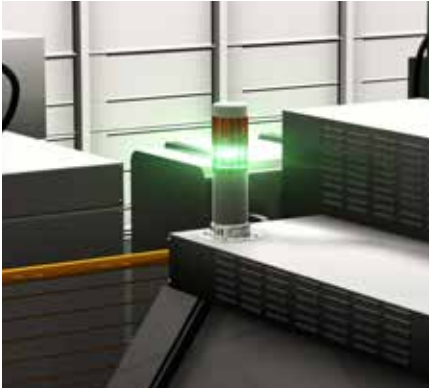
LED Unit Model Code		
LR	□	- E - □
Model	①	Globe Color ②
① Size	② Color	
4 = φ40	R = Red	
5 = φ50	Y = Amber	
6 = φ60	G = Green	
7 = φ70	B = Blue	
	C = White	

Buzzer Unit Model Code		
LR	□	- B □
Model	①	Buzzer Unit ②
① Size	② Color	
4 = φ40	W = Off-white	
5 = φ50	U = Silver*1	
6 = φ60		
7 = φ70		
	*1 LR4 / LR6 only	

Signal Tower

LR Series Optional Parts

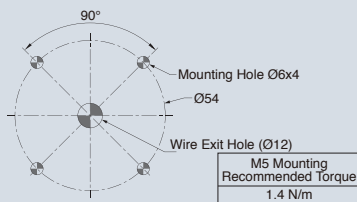
Direct Mount Brackets



Circular Bracket

Model: SZW-001W

■ Mounting Dimensions (Unit: mm)



Wall-mount Bracket

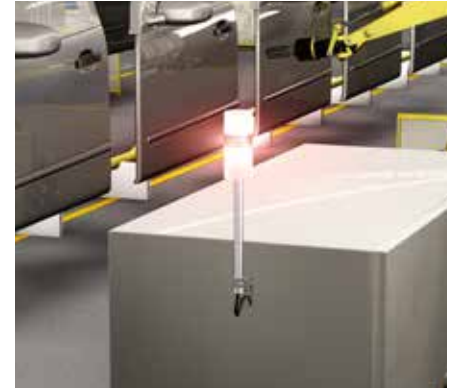
Model: SZK-002W(U) SZK-003W(U)



■ Mounting Dimensions (Unit: mm)



T Type Aluminum Pole Brackets

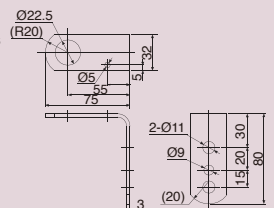


'L' Bracket

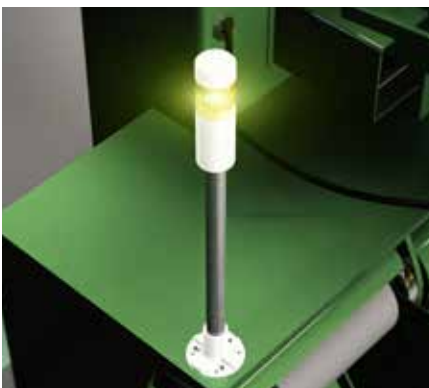
Model: SZL-001



■ Mounting Dimensions (Unit: mm)



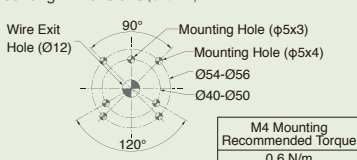
N Type Aluminum Pole Brackets



Circular Multi-pitch Bracket

Model: SZP-001W

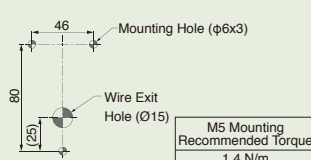
■ Mounting Dimensions (Unit: mm)



Wall-mount Bracket

Model: SZK-001U

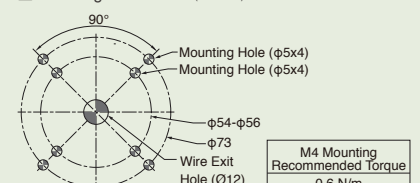
■ Mounting Dimensions (Unit: mm)



Circular Bracket

Model: SZP-002U

■ Mounting Dimensions (Unit: mm)



N Type Aluminum Pole Brackets

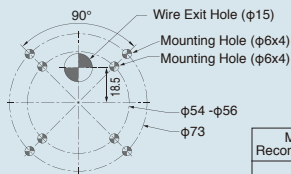


Angle Bracket

Model: SZQ-001W

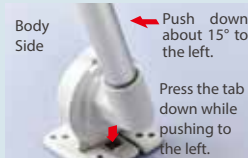


■ Mounting Dimensions (Unit: mm)

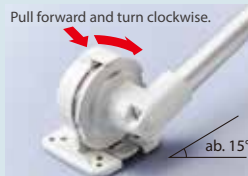


See the Movie!

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



- 2 Press the angle bracket forward and push about 15° in the clockwise direction. Pull forward and turn clockwise.



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

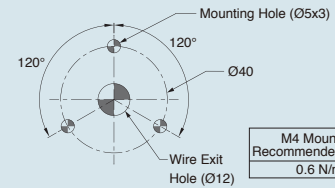


Circular Bracket

Model: SZP-003W



■ Mounting Dimensions (Unit: mm)



■ Aluminum Poles (Waterproof Ring/Screw Accessories included)

N Type



100mm

Model: POLE22-0100AN



300mm

Model: POLE22-0300AN



800mm

Model: POLE22-0800AN

T Type



300mm

Model: POLE22-0300AT



500mm

Model: POLE22-0500AT



1000mm

Model: POLE22-1000AT

Replacement Parts

■ 'O' ring/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

■ Base Unit

• Aluminum Pole Adaptor



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

■ 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

Signal Tower

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

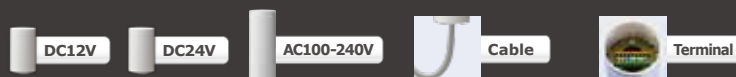
□...W: Off-white U: Silver K: Black

Select an LED Unit

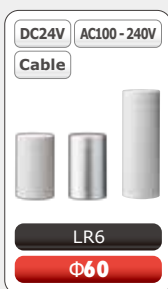
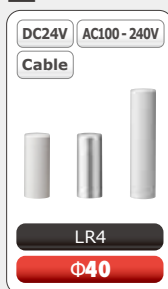


Size	Color	Model	Power Consumption	Mass
φ40	    	LR4-E-R/Y/G/B/C	1.0W	0.035kg
φ50	    	LR5-E-R/Y/G/B/C	1.0W	0.040kg
φ60	    	LR6-E-R/Y/G/B/C	1.0W	0.060kg
φ70	    	LR7-E-R/Y/G/B/C	1.0W	0.065kg

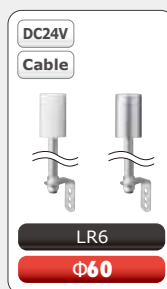
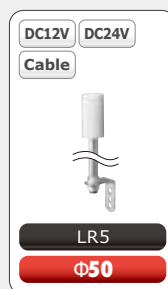
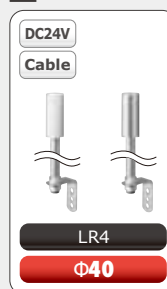
Select a Body Unit



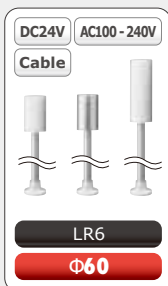
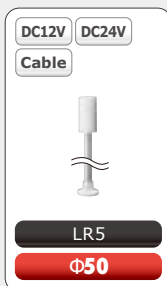
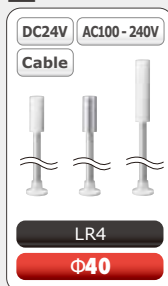
Direct Mount Models (WJ, WT)



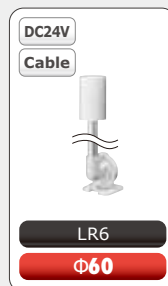
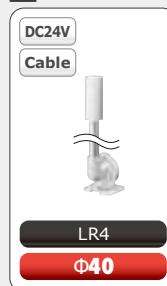
'L' Bracket Models (LJ)



Circular Bracket Mount Models (PJ)



Angle Bracket Models (QJ)



Color Units ordered outside the Standard Stock can be delivered in a short time.

Prompt Delivery

EASY Assembly

Body Unit Model Code

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

Model ① ② ③ ④ ⑤

(1) Size

4 = Ø40
5 = Ø50
6 = Ø60
7 = Ø70

(2) Rated Voltage

01 = DC12V^{*1}
02 = DC24V
M2 = AC100 - 240V^{*2}

(3) Mounting/Wiring

WJ = Direct w/Cable
WT = Direct w/Terminal^{*3}
LJ = Pole/ 'L' Bracket w/Cable^{*4}
PJ = Pole/ Circular Bracket w/Cable^{*4}
QJ = Pole/ Angle Bracket w/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	Ø50	Cable	LR5-01WJNW
	DC24V	Ø40		LR4-02WJNW/U
		Ø50		LR5-02WJNW
		Ø60		LR6-02WJNW/U
		Ø70		LR7-02WJNW
		Ø50	Screwless Terminal	LR5-02WTNW/U/K
		Ø70		LR7-02WTNW/U/K
Pole Mount w/ Circular Bracket	AC100 - 240V	Ø40	Cable	LR4-M2WJNW
	DC24V	Ø60		LR6-M2WJNW
		Ø50		LR5-01PJNW
		Ø40		LR4-02PJNW/U
		Ø50		LR5-02PJNW
		Ø60		LR6-02PJNW/U
Pole Mount w/ 'L' Bracket	AC100 - 240V	Ø40	Cable	LR4-M2PJNW
	DC24V	Ø60		LR6-M2PJNW
		Ø50		LR5-01LJNW
		Ø40		LR4-02LJNW/U
		Ø50		LR5-02LJNW
		Ø60		LR6-02LJNW/U
Pole Mount w/ Angle Bracket	DC24V	Ø40	Cable	LR4-02QJNW
		Ø60		LR6-02QJNW

Removable Screwless Terminal



A new removable terminal For easier wiring.



The terminal can be pulled out

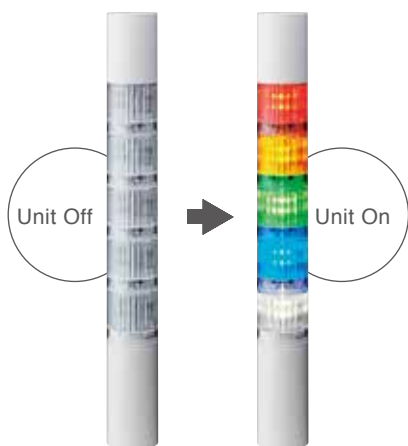


LR Series Upcoming Products

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



+

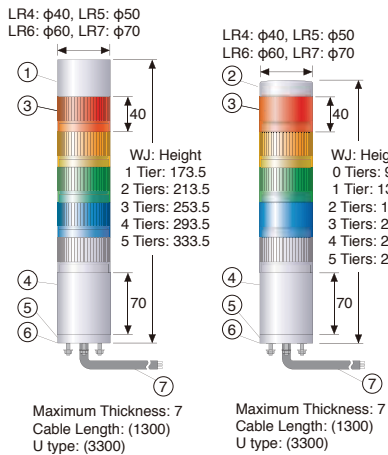
WD Series
System

=

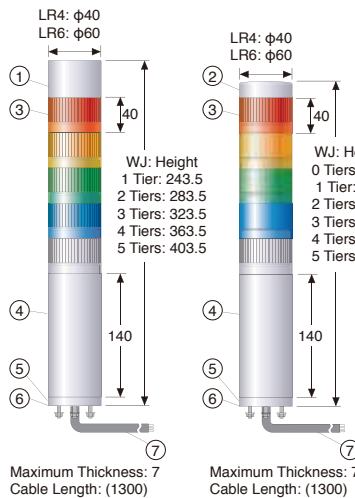
Wireless
Transmission

Outer Dimensional Drawing (Unit: mm)

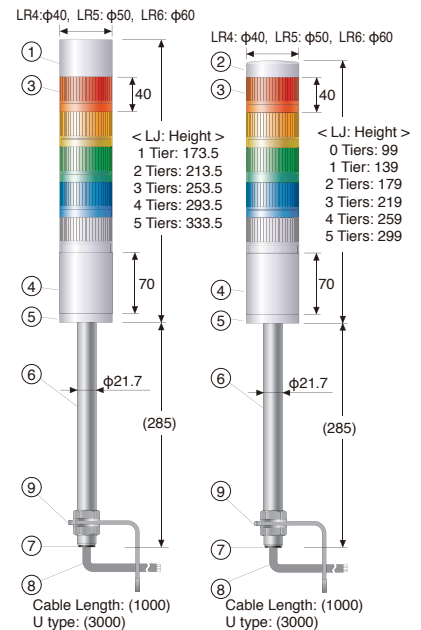
Mount A [WJ] Direct Mount/Cable
(01: DC12V / 02: DC24V)



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

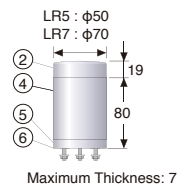


Mount B [LJ] Pole Mount w/'L' Bracket & Cable
(02: DC24V)



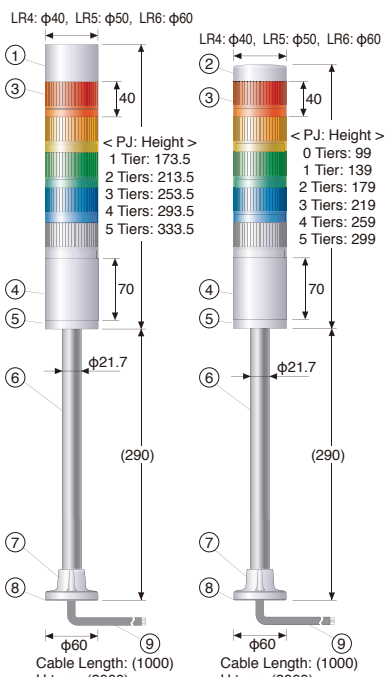
Number	Description	Material
①	Buzzer Assembly Unit	PC
②	Headcover	PC
③	LED Assembly Unit	Globe: PC
④	Body	PC
⑤	Pole Bracket	PC
⑥	Pole	AL
⑦	Rubber Bushing	EPR Rubber
⑧	Cable	PVC
⑨	'L' Angle	Steel

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



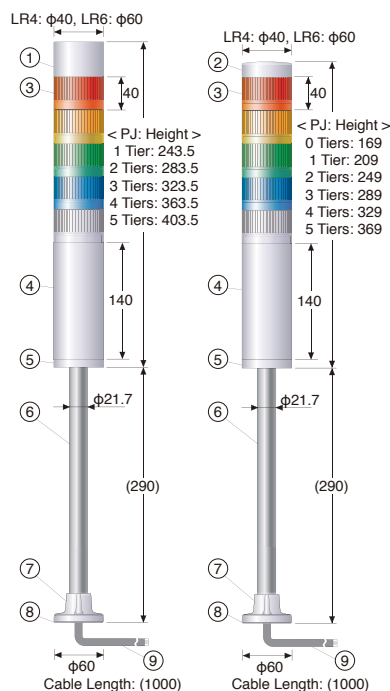
Number	Description	Material
①	Buzzer Assembly Unit	PC
②	Headcover	PC
③	LED Assembly Unit	Globe: PC
④	Body	PC
⑤	Direct-mount Bracket	PC
⑥	Waterproof Packing	Silicon Rubber
⑦	Cable	PVC

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



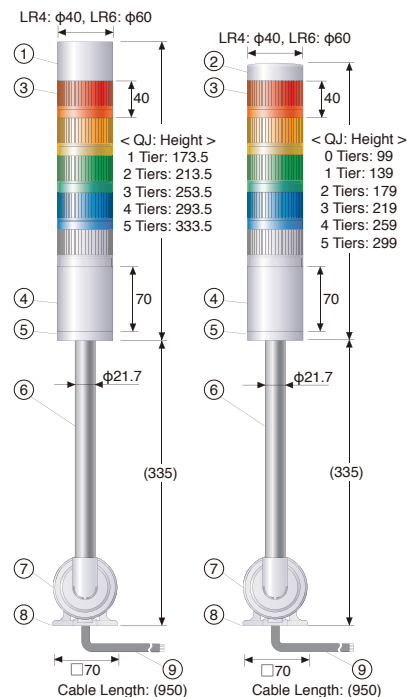
Number	Description	Material
①	Buzzer Assembly Unit	PC
②	Headcover	PC
③	LED Assembly Unit	Globe: PC
④	Body	PC
⑤	Pole Bracket	PC
⑥	Pole	AL
⑦	Circular Bracket	PC
⑧	Waterproof Packing	Silicon Rubber
⑨	Cable	PVC

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



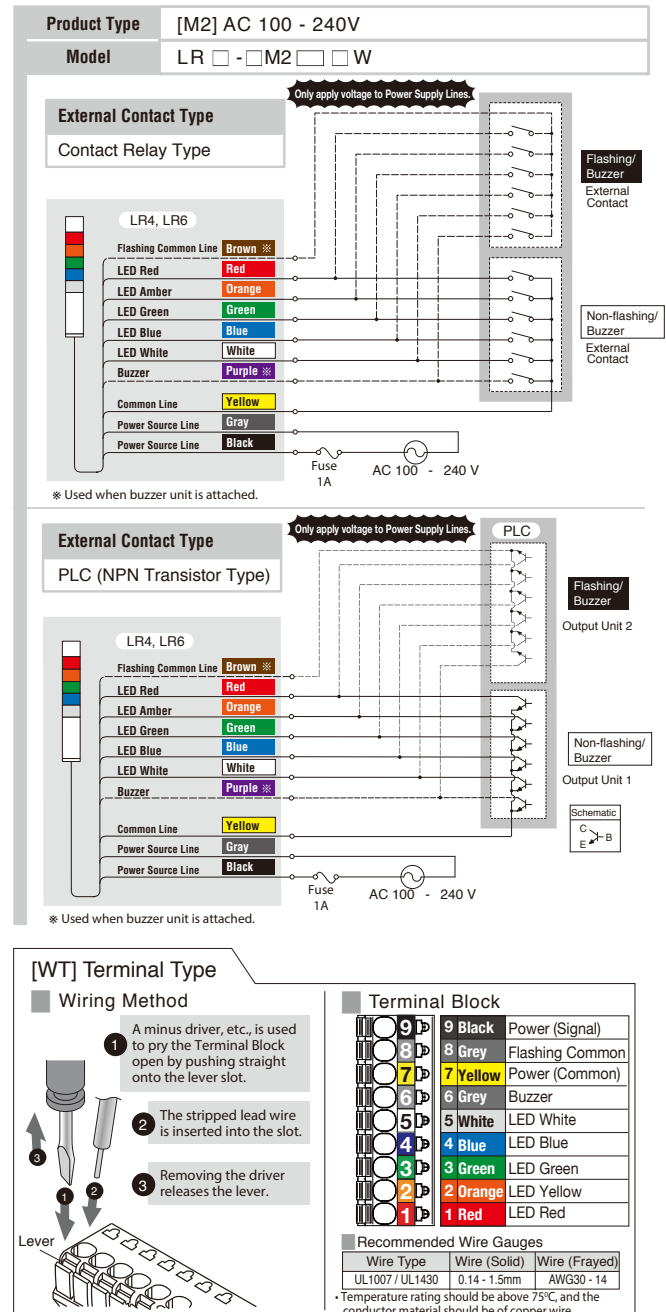
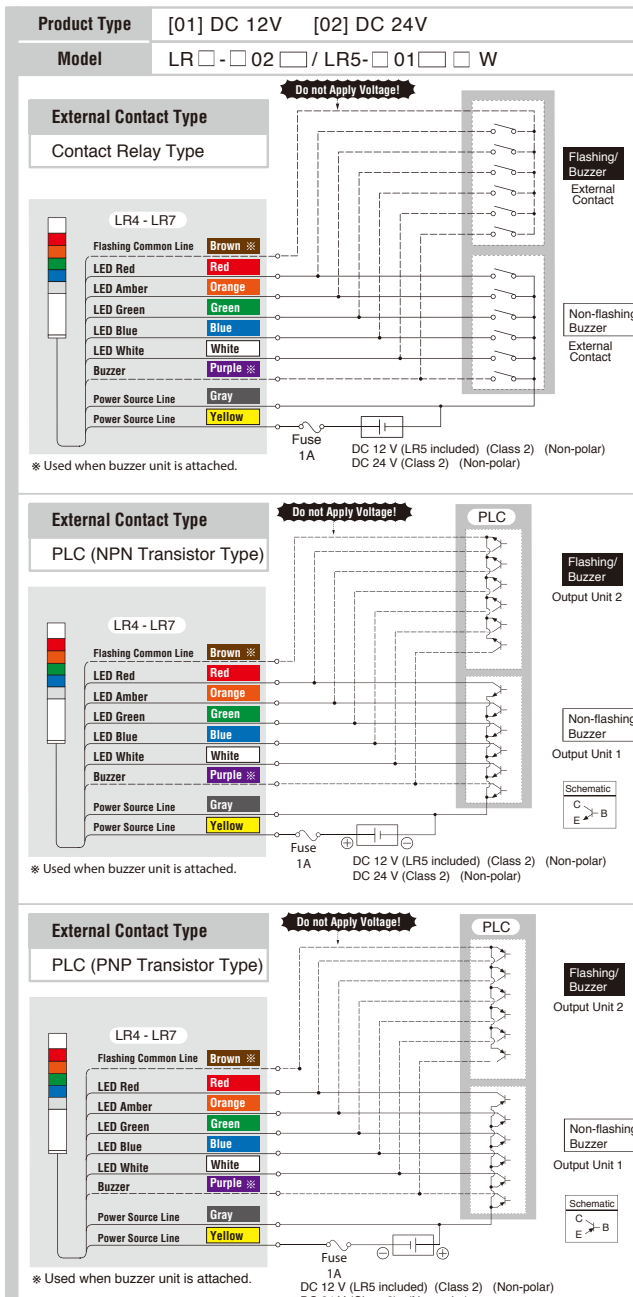
Number	Description	Material
①	Buzzer Assembly Unit	PC
②	Headcover	PC
③	LED Assembly Unit	Globe: PC
④	Body	PC
⑤	Pole Bracket	PC
⑥	Pole	AL
⑦	Circular Bracket	PC
⑧	Waterproof Packing	Silicon Rubber
⑨	Cable	PVC

Mount C [QJ] Pole Mount w/Angle Bracket & Cable
(02: DC24V)

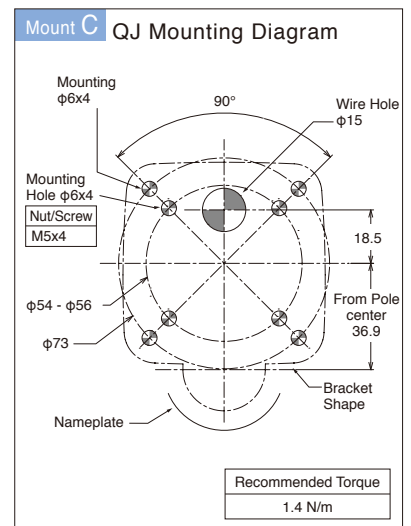
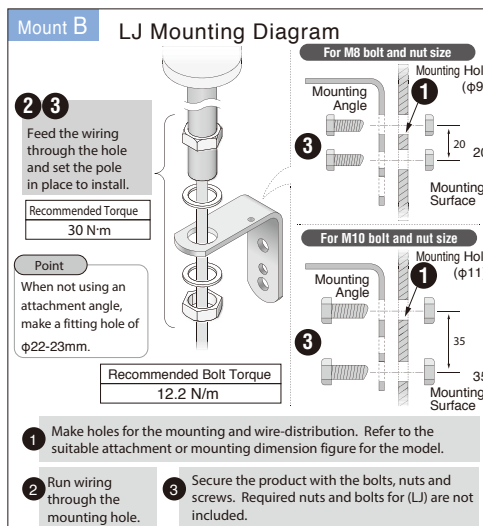
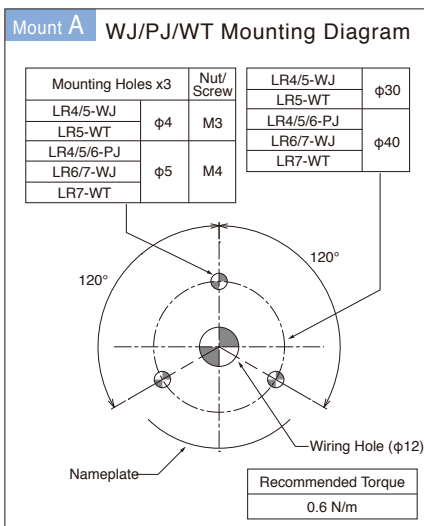


Number	Description	Material
①	Buzzer Assembly Unit	PC
②	Headcover	PC
③	LED Assembly Unit	Globe: PC
④	Body	PC
⑤	Pole Bracket	PC
⑥	Pole	AL
⑦	Angle Bracket	PC
⑧	Waterproof Packing	CR
⑨	Cable	PVC

Wiring Diagrams



Mounting Dimensions (Unit: mm)



Specification

LR Series Fully-assembled Product General 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: L 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 General Specifications

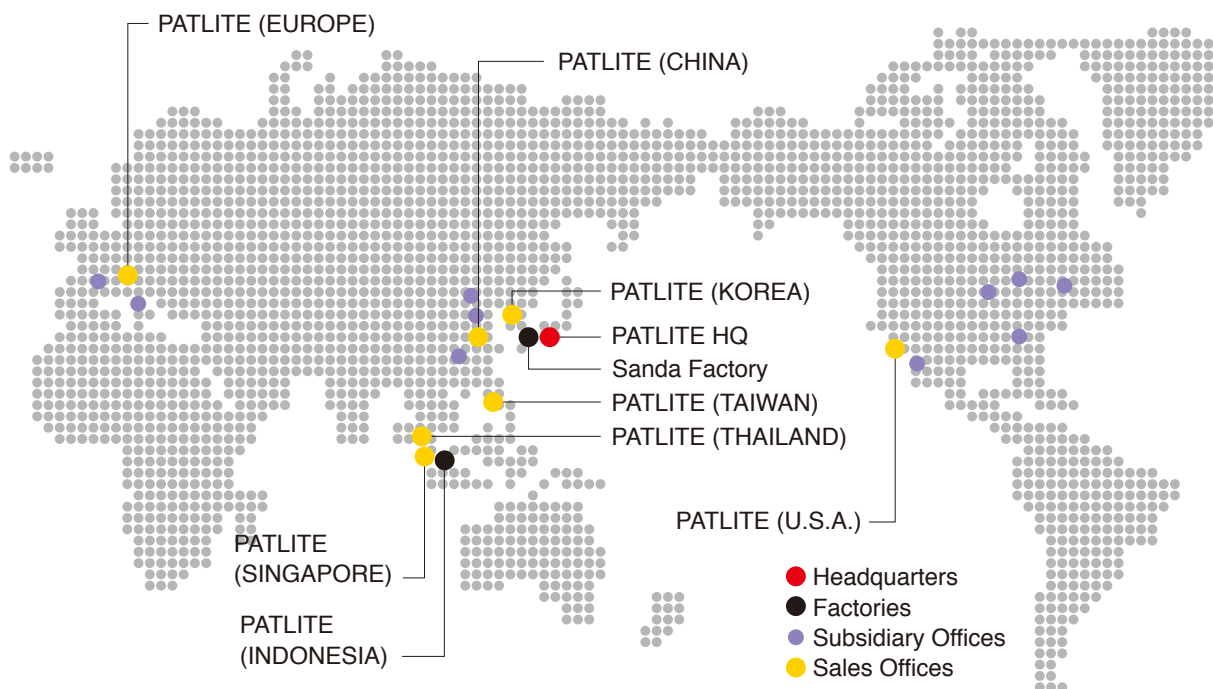
Color		Red	Amber	Green	Blue	White
Rated Voltage		DC24V				
Current Consumption/ Power Consumption	Typ.	0.04A/ 1W	0.04A/ 1W	0.04A/ 1W	0.04A/ 1W	0.04A/ 1W
	Max.	0.045A/ 1.3W	0.045A/ 1.3W	0.045A/ 1.3W	0.045A/ 1.3W	0.045A/ 1.3W
Conformity Standards		<ul style="list-style-type: none"> UL 508, CSA-C22.2 No.14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

Buzzer Unit General Specifications

Rated Voltage		DC24V
Current Consumption/ Power Consumption	Typ.	0.04A/1W
	Max.	0.3A/1.3W
Standards/ Conformity		<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)

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

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PATLITE Corporation

4-1-3, Kyutaromachi, Chuo-ku, Osaka 541-0056 Japan
TEL. +81-6-7711-8953 FAX: +81-6-7711-8961 E-mail: overseas@patlite.co.jp

PATLITE (U.S.A.) Corporation

20130 S. Western Ave. Torrance, CA 90501, U.S.A.
TEL. +1-310-328-3222 FAX: +1-310-328-2676 E-mail: sales@patlite.com

PATLITE (SINGAPORE) PTE LTD

No.2 Leng Kee Road, #05-01 Thy Hong Centre, Singapore 159086
TEL. +65-6226-1111 FAX: +65-6324-1411 E-mail: sales@patlite.com.sg

PATLITE (CHINA) Corporation

Room 1102-1103, No.55, Lane 777, Guangzhong Road (West), Zhabei District, Shanghai, China 200072
TEL. +86-21-6630-8969 FAX: +86-21-6630-8938 E-mail: sales@patlite.cn

PATLITE Europe GmbH

Am Soeldnermoos 8, D-85399 Hallbergmoos, Germany
TEL. +49-811-9981-9770-0 FAX: +49-811-9981-9770-9 E-mail: info@patlite.eu

PATLITE KOREA CO., LTD.

A2603, Daesung, D-POLIS, 606, Seobusaet-gil, Geumcheon-gu, Seoul, 08504, Korea
TEL. +82-2-523-6636 FAX: +82-2-861-9919 E-mail: sales@patlite.co.kr

PATLITE TAIWAN CO., LTD.

7F. No. 91, Huayin St, Datong District Taipei, Taiwan R.O.C
TEL. +886-2-2555-1611 FAX: +886-2-2555-1621 E-mail: info@patlite.tw

PATLITE (THAILAND) CO., LTD.

Olympia Thai Tower, 15th Floor 444 Ratchadapisek Road Samsenok, Huay Kwang Bangkok 10310, Thailand
TEL. +66-2-541-5431 FAX: +66-2-541-5429 E-mail: sales@patlite.co.th

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

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ghv Vertriebs-GmbH | Am Schammacher Feld 47 | 85567 Grafing | Telefon + 49 80 92 81 89 0 | info@ghv.de | www.ghv.de