PATLITE®



Thank you very much for purchasing our PATLITE product.

Notice to Customer

- Request the installation and wiring be performed by a professional contractor if construction work is involved.
- Prior to installation, read this manual thoroughly before using this product to ensure correct use.
- After reviewing this manual, if there are any questions regarding this product, please contact the nearest PATLITE office listed on the back cover of this manual.

Notice to Contractor

- •Read this manual carefully prior to installation.
- •Be sure to return this manual to the customer.

Signal Tower TYPE LR4 / LR5 / LR6 / LR7

Complete Operation Manual

Installation Operation Maintenance

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1 Safety Precautions

NOTES TO BE OBSERVED FOR SAFE OPERATION

In order to prevent any damage to the user and other personnel or to assets, note the following:

The indications for warning are divided into the following classes according to the degree of danger or damage incurred when the warning is not taken into consideration and the product is not correctly used.

▲ Warning

Indicates an imminently dangerous condition: failure to follow the instructions may lead to death or serious injury.



Indicates a potentially dangerous condition: failure to follow the instructions may lead to slight injury or property damage.

A Warning

- To prevent from short-circuits, electric shock or damage, observe the following:
 - Be sure the power is disconnected before replacement or repair, including the replacement of the fuse.
- Use this product in a properly maintained condition. (Replace or repair if the body, LED unit, etc. are damaged.)
- Request the installation and wiring be performed by a professional contractor if construction work is involved.
 Failure to comply may result in fire, electric shock or falling from high places possible cause of failure may occur.

⚠ Caution

- Avoid long exposure to the Buzzer sound from a close distance. Failure to observe this may lead from irritation to permanent damage to the ears. (| | Flashing/Buzzer)
- In order to maintain protection of this product against dust and waterproofing performance, be sure to use the head cover, LED unit and buzzer unit in the condition that it was originally attached.
- Do not operate this product without the O-ring or the waterproof packing material. Failure to comply will result in lower waterproofing performance. Possible cause of failure may occur.
- Do not apply voltage to any signal lines, or Flashing Common (01,02) other than the source line (M2). Product failure will occur.
- When removing covers or packing from the equipment, which is attached to this product, be careful not to snag the
 product. Failure to comply may result in damage to the product.

Notice

- To ensure proper safety while using the signal tower, observe the following:
 - Perform periodic pre-maintenance.
- As a precaution against problems occurring, use this product together with other equipment.
- Be sure to discharge any static electricity from the body before handling static sensitive parts of this product.
 (To prevent damage from static electricity, touch hands or other body parts to metals or an earth ground to discharge the body from static charge.)
- Use a soft cloth moistened with water when the LED Unit or body must be cleaned up.
 (Do not use thinner, benzine, gasoline or oil.)
- To ensure safety when this product is installed onto equipment, observe the following:
- Do not remove parts beyond those designed to be removed from this product.
- Do not modify or disassemble this product.
- Use only the specified replacement parts listed in this manual.

2 Model Number Configuration

	Model	Tiers	Rated Voltage	Mounting/ Wiring	Flashing/Buzzer	Body Color	LED Unit Color
Assembly Model	LR ↓	- ↓	↓	↓	↓	\downarrow	- RYGBC
Unit Model (Body Unit)	LR ↓	-]	\downarrow	↓	↓	↓	
	φ60 φ70 1		ers		B With Flashir		×7
*1 LR5 *2 LR4•6 - W *3 LR4•6 - 02 LR5 - 01•0	,	02	12V DC ^{※1} 24V DC 100-240V <i>A</i>	AC **2		M Off-wl	*8
%4 LR4•5•6 %5 LR4•6 - 02	- W	WJ	irect Mount	Cable		K Black	**9
*6Body Unit *7 Assembly N *8 LR4•6 - 02 LR5•7 - W *9 LR5•7 - W	LR5•7 - 02 lodel ,	PJ,	ole Mount w Cable ^{※4} ole Mount w Cable ^{※5}	ith L-bracket / (ith Circular Bra ith Folding Brad / Terminal (Boo	cket G	(Green)	T: R (Red)/Y (Amber)/ //B (Blue) /C (White) to bottom)

Model Number Example

LR4-502PJBU-RYGBC

- Ф40
 LED 5 Tiers
 24V DC
 Pole Mount with Circular Bracket / Cable
- With Flashing/Buzzer
 Silver
 (From top) Red/Amber/Green/Blue/White

LR5-301WJNW-RYG

- Ф50 LED 3 Tiers 12V DC Direct Mount / Cable
- No Flashing/Buzzer ◆Off-white ◆ (From top) Red/Amber/Green

LR6-M2LJNW

- Ф60
 100 240V AC
 Pole Mount with L-bracket / Cable
- No Flashing/Buzzer Off-white

LR7-02WTNK

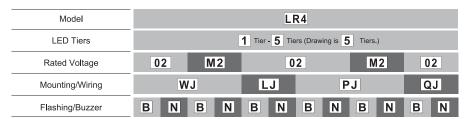
- Ф70
 24V DC
 Direct Mount / Terminal
- No Flashing/Buzzer Black

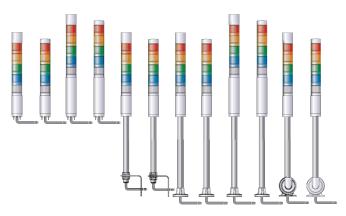
3 Part Names and Outer Appearance

Outer Appearance List

The full product appearance is indicated according to its model number. Refer to the model numbers as a reference to its appearance. (Body Color: Off-White)

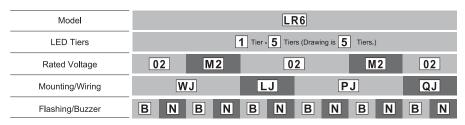
Assembly Model

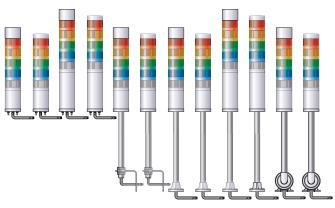


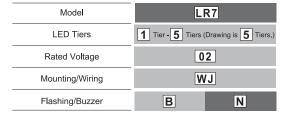


Model	LR5		
LED Tiers	1 Tier - 5 Tiers (Drawing is 5 Tiers.)		
Rated Voltage	01/02		
Mounting/Wiring	WJ LJ PJ		
Flashing/Buzzer	B N B N B N		



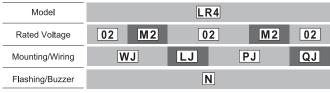


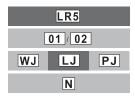






Unit Model (Body Unit)









Model		LR6		
Rated Voltage	02 M2	02	M2	02
Mounting/Wiring	WJ	LJ	PJ	QJ
Flashing/Buzzer		N		

LR7
02
WJ
N





Model	LR5	LR7
Rated Voltage	0	2
Mounting/Wiring	W	T
Flashing/Buzzer	l l	I





Part Name and Dimensions

■ WJ Direct Mount with Cable Type (01 , 02)

LR - - WJB LR - - WJN LR4: Ø40, LR5: Ø50 LR6: Ø60, LR7: Ø70 LR4: Ø40, LR5: Ø50 LR6: Ø60, LR7: Ø70 -(1 53.5 (2) 19 (3) (3 40 40 LR□ - 1□□ : 173.5 LR□ - □□: 99 LR□ - 2□□ : 213.5 LR - 1 : 139 LR□ - 3□□ : 253.5 LR□ - 2□□ : 179 LR□ - 4□□ : 293.5 LR □ - 3 □ □ : 219 LR□ - 5□□ : 333.5 LR□ - 4□□: 259 LR □ - 5 □ □ : 299 (4) 4 5 5 6 (90)

No.	Name	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	Silicone Rubber
7	Cable	PVC

(Unit: mm)

- · Maximum Board Thickness: 7
- · Cable : UL2464 (Ø7.5) Signal Wire & Power Supply Wire: AWG24 Cable Length: Off-white (1300) Silver (3300)

7

■ WJ Direct Mount with Cable Type (M2) LR□ - □M2WJBW

LR4: Ø40, LR6: Ø60

LR□ - □M2WJNW

LR4: Ø40, LR6: Ø60 53.5 19 (3 (3 T40 40 ▼. LR □-1M2 : 243.5 LR . M2:169 LR□-2M2 : 283.5 LR □-1M2 : 209 LR□-3M2 : 323.5 LR□-2M2 : 249 LR -4M2: 363.5 LR□-3M2 : 289 LR□-5M2 : 403.5 LR□-4M2: 329 LR □-5M2: 369 (5 6 7 Maximum Board Thickness: 7

 Cable: UL2464 (Ø7.5) Signal Wire: AWG24 Power Supply Wire: AWG18 Cable Length: (1300)

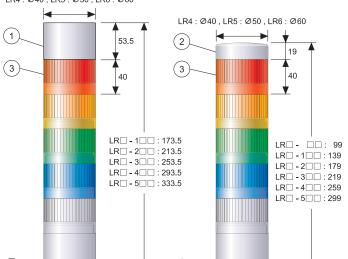
Accessory LR4-5-WJ LR6-7-WJ Hexagon Nut with Flange (M3) Hexagon Nut with Flange (M4) 3 pcs. 3 pcs.

LR - - - LJB

4

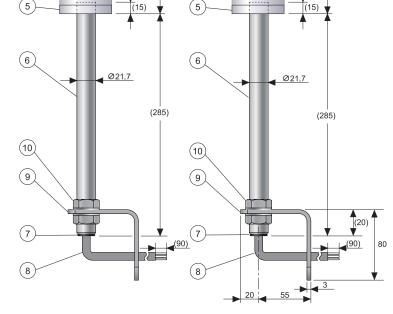
LR4: Ø40, LR5: Ø50, LR6: Ø60

LR - - - LJN



4

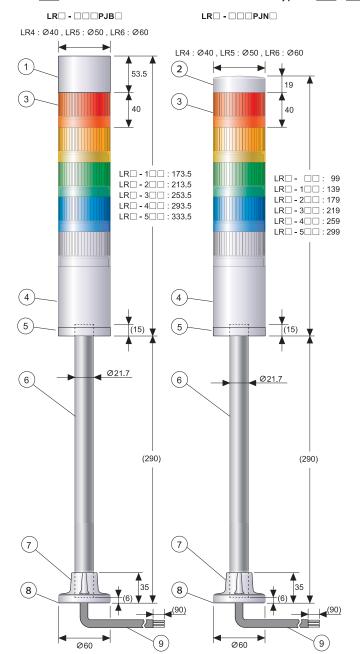
No.	Name	Material
1	Buzzer Unit	PC
2	Head Cover	PC
3	LED Unit	Globe: PC
4	Body	PC
5	Pole Bracket	PC
6	Pole	AL
7	Rubber Bushing	EPR
8	Cable	PVC
9	L-bracket	Steel
10	Hexagon Nut M22	SUM



Cable : UL2464 (Ø7.5)
 Signal Wire & Power Supply Wire : AWG24
 Cable Length: Off white (1000)

Cable Length: Off-white (1000) Silver (3000) % LR4, LR6

■ PJ Circular Bracket and Pole Mount with Cable Type (01,02)

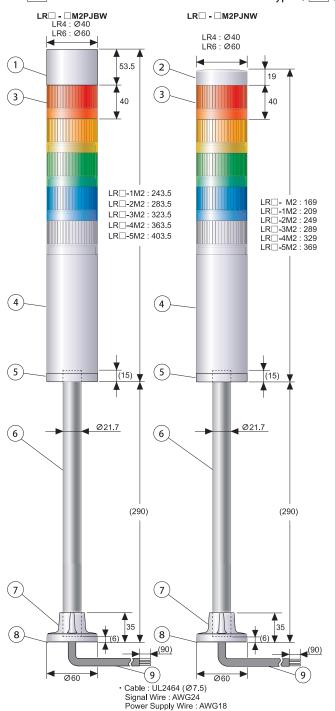


No.	Name	Material
1	Buzzer Unit	PC
2	Head Cover	PC
3	LED Unit	Globe: PC
4	Body	PC
5	Pole Bracket	PC
6	Pole	AL
7	Circular Bracket	PC
8	Waterproof Packing	Silicone Rubber
9	Cable	PVC



Cable : UL2464 (Ø7.5)
 Signal Wire & Power Supply Wire : AWG24
 Cable Length: Off-white (1000)
 Silver (3000) ** LR4, LR6

■ PJ Circular Bracket and Pole Mount with Cable Type (M2)

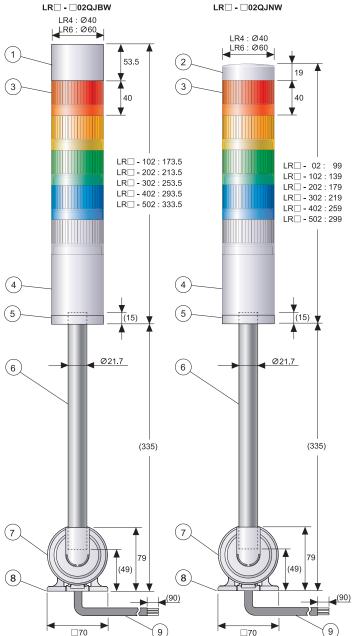


Cable Length: (1000)

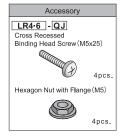
No.	Name	Material
1	Buzzer Unit	PC
2	Head Cover	PC
3	LED Unit	Globe: PC
4	Body	PC
5	Pole Bracket	PC
6	Pole	AL
7	Circular Bracket	PC
8	Waterproof Packing	Silicone Rubber
9	Cable	PVC

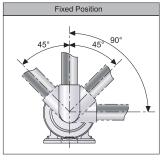


■ QJ Folding Bracket and Pole Mount with Cable Type (02)

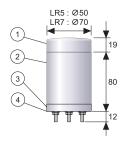


No.	Name	Material
1	Buzzer Unit	PC
2	Head Cover	PC
3	LED Unit	Globe: PC
4	Body	PC
5	Pole Bracket	PC
6	Pole	AL
7	Folding Bracket	PC
8	Waterproof Packing	CR
9	Cable	PVC





Cable: UL2464 (Ø7.5)
 Signal Wire & Power Supply Wire: AWG24
 Cable Length: (950)



Maximum Board Thickness: 7

No.	Name	Material
1	Head Cover	PC
2	Body	PC
3	Direct Mount Bracket	PC
4	Waterproof Packing	Silicone Rubber

Acce	essory
LR5 - WT	LR7 - WT
Hexagon Nut with Flange (M3)	Hexagon Nut with Flange (M4)
3 pcs.	3 pcs.

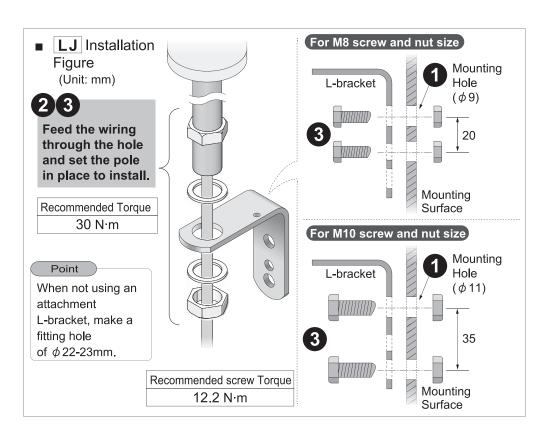
Notice

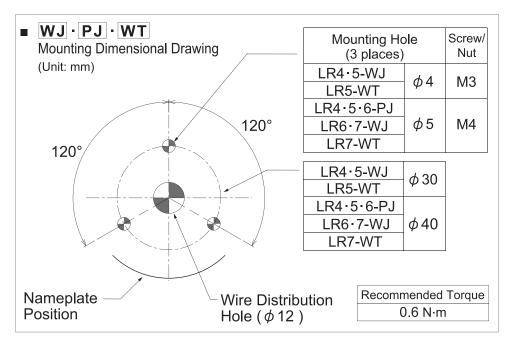
- The following requirements are necessary for proper installation:
- Install the signal tower where excessive vibration is not present.
- Install the signal tower on a sturdy surface.
- Install the signal tower on a level surface.
- Only install the signal tower in an upright position.
- When the installation location is unavoidably irregular and waterproof performance is required, use a sealant between the product and the installation surface.
- If the pole type requires an IP65 rating, apply sealant to the screws, nuts and wire distribution hole when installing the
 compatible bracket onto the installation surface.(|PJ| |QJ|)
- Although the LR4- WJ mounting bolt moves prior to assembly, it is not a quality issue. Be sure to mount the product in the manner indicated below.

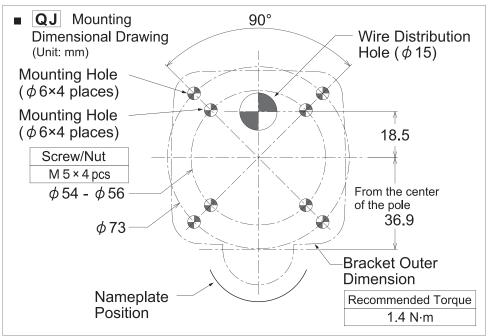
Basic Mounting Instructions

- Make holes for the mounting and wire-distribution for the product.

 (Check the Model and refer to the suitable attachment or mounting dimension figure.)
- 2 Run the wiring through the distribution hole.
- Secure the product with the bolts, nuts and screws. (LJ required nuts and screws are not included.)







A Warning

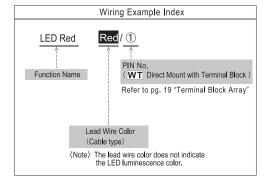
- Be sure the power is disconnected before wiring and changing fuses. Possible cause of short-circuiting may occur.
- Ensure the proper working voltage is used and that direct current or alternating current is properly applied.
 Possible cause of damage may occur.

⚠ Caution

- Do not apply voltage to the Flashing Common line(01,02).
- Do not apply voltage to any signal lines, other than the source line (M2). Product failure will occur.
- Do not control the flashing display by switching the power source ON and OFF for M2 . Product failure will occur.
 It is not necessary to connect to an external lead for tiers not used. When an extra lead is not connected, it should be individually insulated with electrical tape or something similar. Failure to comply will result in damage due to short
- Do not pull the lead wire or push it inside the body. Product failure will occur.

Notice

- When using multiple LED units of the same color, make the contact capacity equal to the number of same color LED units multiplied by the contact capacity for 1 tier.
- (This is because LED units of the same color light up for one signal line.)
- To protect the power supply and other internal circuitry, be sure to install an external fuse.
- If wiring is extended beyond its factory length, a relevance in the length of the wire and wire gauge will cause a voltage drop.



Wiring Example

The following is a basic wiring example. If there are any special applications that require asking questions concerning this product, feel free to contact your PATLITE Sales Representative. Accidental wiring will result in product failure.

■ Wire Type & Wire Gauge

M2 Power Supply Wire(Gray, Black)・・・UL2464 / AWG18

Excluding M2 Power Supply Wire(Gray, Black)

... UL2464 / AWG24

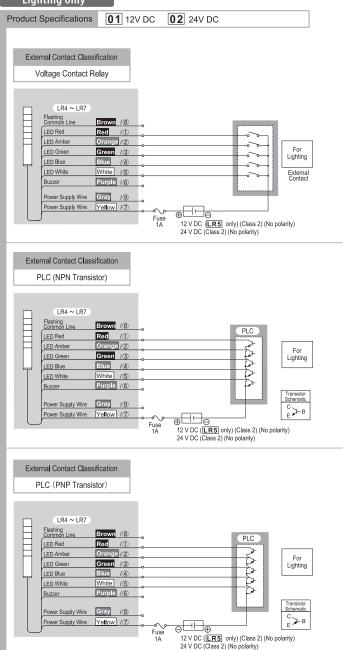
<Note> When lighting and flashing are used together, it is necessary to prepare an external contact for each lighting or flashing.

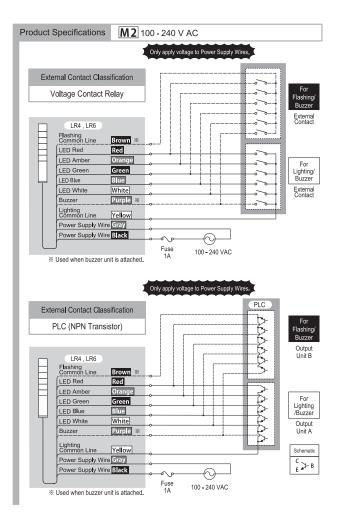
Lighting / Frashing / Buzzer **Product Specifications** 01 12V DC 02 24V DC Do not Apply Voltage! External Contact Classification For Voltage Contact Relay Flashing External Contact LR4 ~ LR7 Flashing Common Line Brown /8 * Red I FD Red LED Amber Orange /2 For Green /3 _ighting/ LED Blue /4 Buzzer LED White White /⑤ Purple /6 * Buzzer Power Supply Wire Gray Yellow /⑦ Power Supply Wire 12 V DC (LR5 only) (Class 2) (No polarity) W Used when buzzer unit is attached. 24 V DC (Class 2) (No polarity) Do not Apply Voltage! PLC External Contact Classification PLC (NPN Transistor) Flashing/ Buzzer Output LR4 ~ LR7 fъ⊢ Unit B Flashing Common Line Brown /8 * Red LED Red Orange /(2) LED Amber Green /3 Lighting/ LED Green Buzzer LED Blue /4 Output LED White White /⑤ Unit A Purple /6 * Buzzer Schematic Power Supply Wire Gray /9 С≽⊢в Power Supply Wire Yellow /⑦ 12 V DC (LR5 only) (Class 2) (No polarity) X Used when buzzer unit is attached. 24 V DC (Class 2) (No polarity) Do not Apply Voltage PLC External Contact Classification PLC (PNP Transistor) For Ď-Flashing Output LR4 ~ LR7 Unit B Flashing Common Line Brown /8 * Red LED Red LED Amber For Lighting/ Green /3 LED Green I FD Blue /(4) Output White /⑤ LED White Unit A Purple /6 * Schematic Gray /9 Power Supply Wire С⊁В Power Supply Wire Yellow /⑦ Fuse 12 V DC (LR5 only) (Class 2) (No polarity)

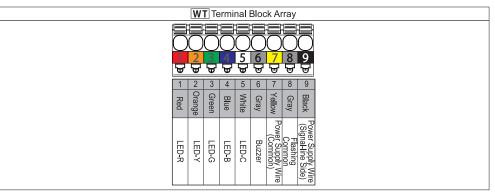
24 V DC (Class 2) (No polarity)

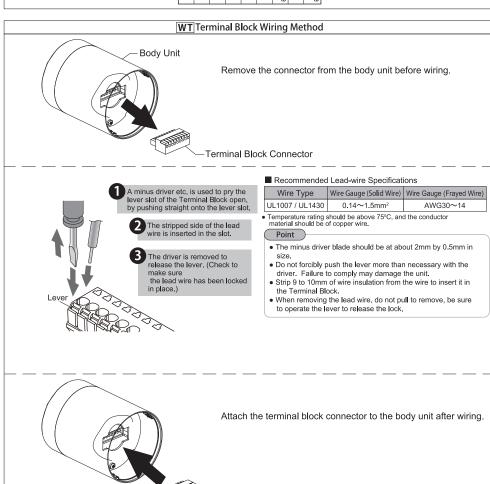
Used when buzzer unit is attached.

Lighting only









** The terminal block connector is attached to the body unit at all times after factory shipment. Refer to pg.36 for "Unit Detachment Method" for removal, wiring and attachment.

■ External Contact Capacity

Is: Current Capacity Vs: Withstand Voltage IL: Leakage Current Ta: Ambient Tenperature

Ra	ted Load Voltage	01 12 V DC	02 24 V DC	M2 100 - 240V AC
LED Unit	Signal Wire Current	90 mA	40 mA	40 mA
(1 Tier)	Contact Capacity	Is ≥ 100 mA Vs ≥ 35 V DC	Is ≥ 100 mA Vs ≥ 35 V DC	Is ≧ 100 mA Vs ≧ 35 V DC
Buzzer	Signal Wire Current	90 mA	40 mA	40 mA
Duzzei	Contact Capacity	Is ≥ 300 mA Vs ≥ 35 V DC (※1)	Is ≥ 300 mA Vs ≥ 35 V DC (※1)	Is ≧ 300 mA Vs ≧ 35 V DC
Power	Current Consumption	500 mA	250 mA	150mA
Supply	Contact Capacity	Is ≥ 700 mA Vs ≥ 35 V DC	Is ≧ 700 mA Vs ≧ 35 V DC	Contact rating above inrush current
	Signal Wire	None (%1)	None (※1)	None
Inrush Current	Power Supply Wire	0.7A / Less than 15ms	0.7A / Less than 0.5ms	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 (Gray / ③ Black) power supply wire is not connected, inrush current of 0.7A will flow through the signal wire (Purple / ⑥ Gray). Be sure to select the apropriate ratings for an external contact.

Recommended Fuse

Fuse Rated Current	t
250V / 1A 5x20mm Fast-Acting Glass Body	Cartridge Fuse

- ⟨Note⟩ When a regulated power supply is not being used, select a fuse that meets class CC or more (M2).
 - Use a fuse holder with UL standard certification (M2).
 - Be sure the power is disconnected before changing fuses.

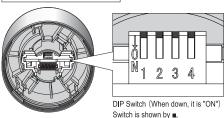
Buzzer Pattern Set-up

The B Flashing/Buzzer type includes a set up for four different patterns and sound reduction. Set up the preferred pattern, using the DIP Switch after removing the buzzer unit.

♠ Caution

- Do not use excessive force to set up the switches. Possible damage or malfunction may occur.
 - Do not adjust switches with a sharp object. Possible damage to switches may cause it to be impossible to operate or cause partial movement of the contacts.

Buzzer Unit Underside View



Pattern Setup Table			
Buzzer	DIP Switch		Sound Pattern
Sound	1	2	Sound Fattern
No.1	OFF T	OFF 1 2	Rapid Intermittent Beep
No.2	ON T	OFF 1 2	Continuous Beep Sound
No.3	OFF T	ON 1 2	Rapid Hi-Lo
No.4	ON I	M on	Sweep Sound

DIP Switch	Volume
OFF N 3	Normal
ON TO 3	Sound Reduction

(Note) Do not use DIP Switch 4.
It is set to "OFF" at all times after factory shipments.

7 How to use the Folding Bracket

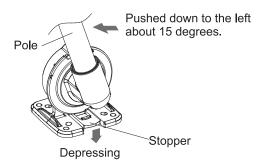
The QJ Folding bracket is a retractable type, which can be pushed down while a product is still attached when transporting equipment.

(Fixed Position: 90 degrees to the right and 45 degrees to the right and left from an upright direction)

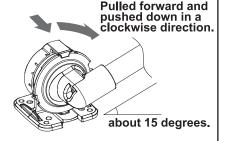


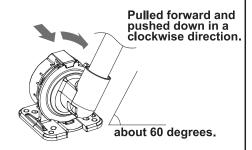
When moving 45 degrees to the right from an upright position.

Depressing the locking lever on the left side of the Pole releases the bracket to be lowered. (Depressing the lock allows the Pole to swivel freely)



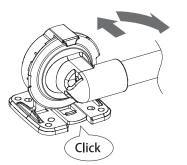
- 2 The Pole can then be pulled forward and pushed down in a clockwise direction. (From a level plane up to about a 15 degree angle)
- The Pole can then be pulled forward and pushed down in a clockwise direction. (From a level plane up to about a 60 degree angle)

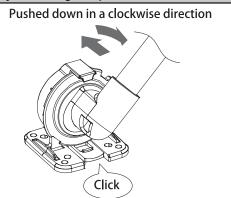




The Pole is pushed down to the right (clockwise).
(The Pole is turned until it is latched in place by the locking lever)

Pushed down in a clockwise direction





8 Unit Detachment Method

Refer to the following diagrams when detaching the buzzer unit, recombining the LED Unit, etc. Also, scan the QR Code to see the "How To" video.

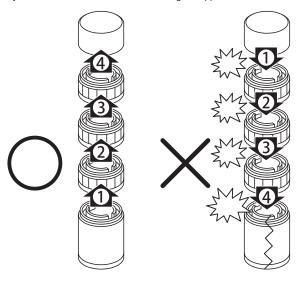


Warning

• Be sure the power is disconnected before working on this product.

- Do not apply excessive strength with each unit or body. Failure to comply may damage the unit.
- Do not touch the connector area or the inside of the body and LED unit. Failure to comply may damage
 the unit.
- Be sure to lock each unit securely when attaching. Failure to comply may damage the unit.
- Detach the unit in the following manner. Any other method may result in damaging the product.
 Attachment: Attach one unit at a time to the body.

Removal : Firmly hold the bottom section while removing the upper section.

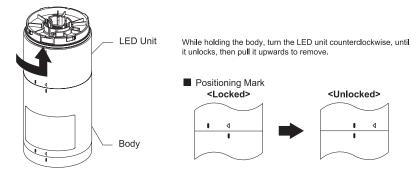


Notice

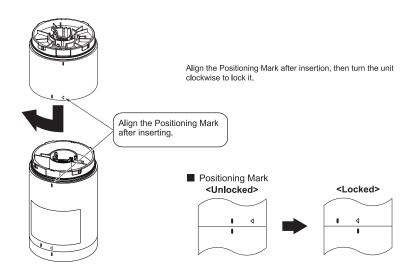
• The maximum number of attachment units per product are five LED units, plus one buzzer unit.

< LED Unit to Body >

Removal

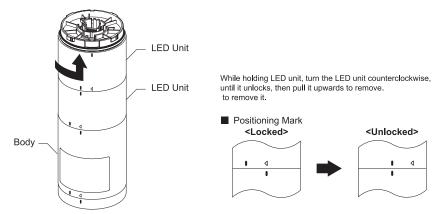


Attachment

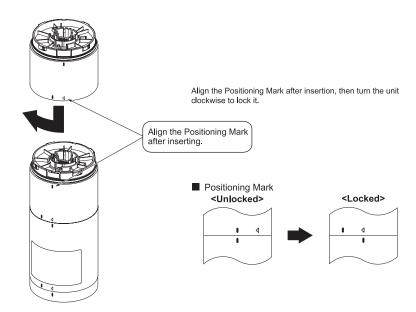


< LED Unit to LED Unit >

Removal

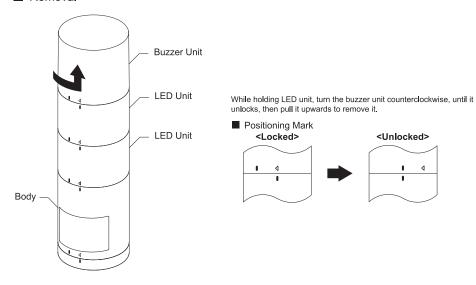


■ Attachment

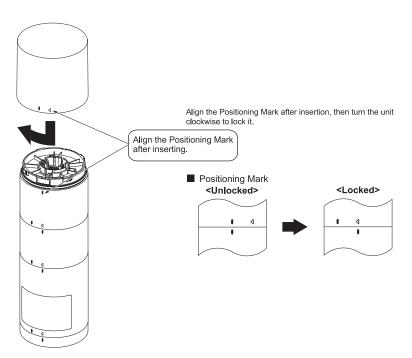


< Buzzer Unit to LED Unit >

Removal

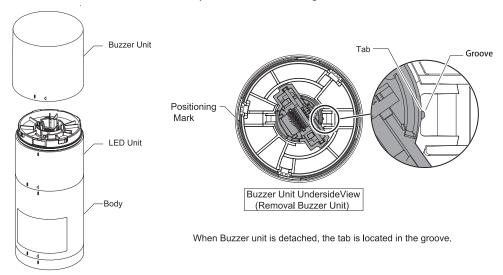


Attachment



< The case that Buzzer Unit can't be attached well>

When Buzzer unit is detached, its state usually is such as below the figure.



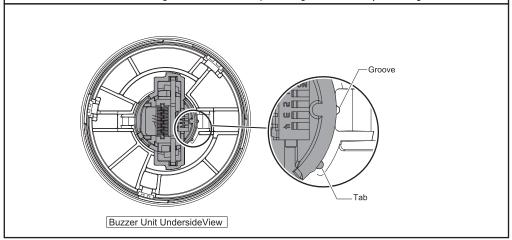
⚠ Caution

If Buzzer Unit can't be attached well, check whether the tab is located in the groove.

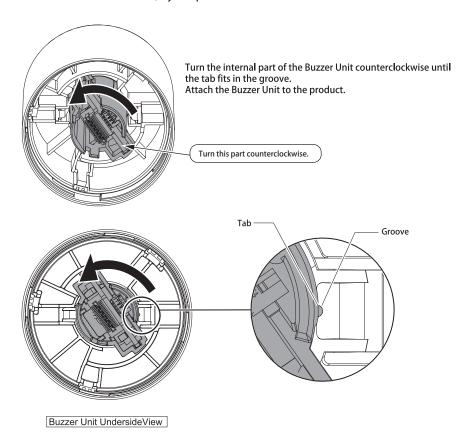
If found in the tab is located out of the groove as below figure, refer to next page.

When Buzzer Unit is detached, there is a possibility that the tab is located out of the groove as below figure.

If Buzzer Unit such as shown in the figure is attached to the product again, the unit may be damaged.

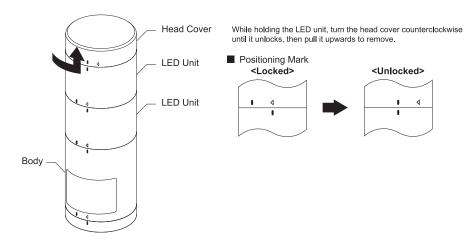


If Buzzer Unit can't be attached well, try this procedure.

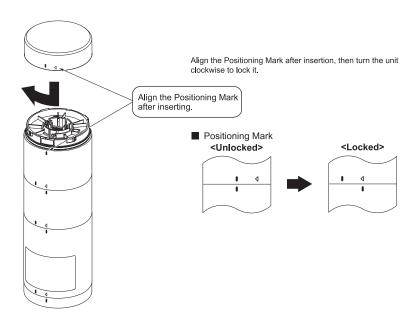


< Head Cover to LED Unit >

Removal

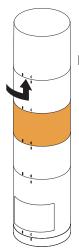


Attachment



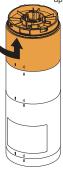
<Unit Replacement Procedure>

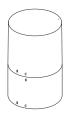
Decreasing the LED Units



1 Remove the LED unit located above the unit which is intended to be removed.

[2] While holding the LED unit, turn the LED unit counterclockwise,until it unlocks, then pull it upwards to remove.

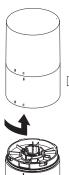




3 Align the Positioning Mark after insertion, then turn the unit which is removed (1) clockwise to lock it.



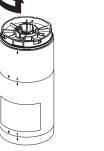
■ Increasing the LED Units



Remove the LED unit located above the unit which is intended to be attached.



2 Align the Positioning Mark after insertion, then turn the unit clockwise to lock it.

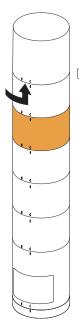


7

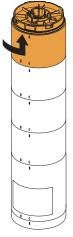


3 Align the Positioning Mark after insertion, then turn the unit which is removed (1) clockwise to lock it.

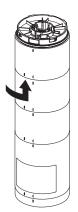
■ Recombining the LED Units



1 Remove the LED unit located above the unit which is intended to be relocated.



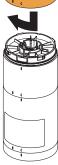
2 While holding the LED unit, turn the LED unit counterclockwise until it unlocks, then pull it upwards to remove.



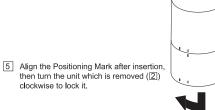
Remove the LED unit located above the unit which is intended to be relocated.

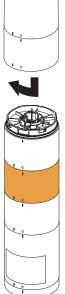


Align the Positioning Mark after insertion, then turn the unit which is removed ([2]) clockwise to lock it.









6 Align the Positioning Mark after insertion, then turn the unit which is removed (1) clockwise to lock it.

< The case that LED Unit can't be attached well>

The structure of LED Unit is shown in the below figure.

Situation	Structure
LED Unit	Positioning Mark LED Unit Topside View (Removal LED Unit) When LED Unit is detached, the tab of lens is usually located in the groove.
LED Unit Body	Positioning Mark Lens Tab Groove LED Unit Topside View (Attached LED Unit) When LED Unit is attached, the tab of lens is usually located out of the groove.

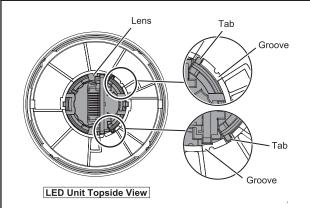
⚠ Caution

If LED Unit can't be attached well, check wheter the tab of lens is located in the groove.

If found in the tab is located out of the groove as below figure, refer to next page.

When LED Unit is detached, there is possibility that teh tab is located out of the groove as below figure.

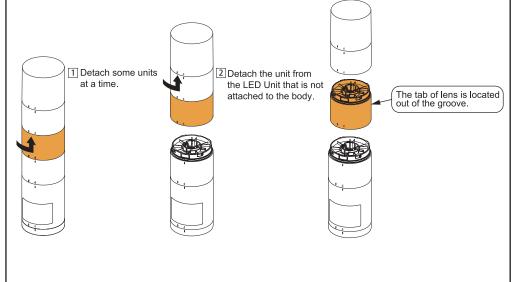
If LED Unit such as shown in the figure is attached to the product again, the unit may damaged.



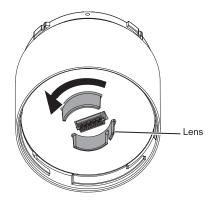
Don't detached LED Unit according to the procedure shown in the below figure.

If LED Unit is detached according to this procedure, the tab of lens is located out of the groove.

If LED Unit such as shown in the figure is attached to the product again, the unit may be damaged.



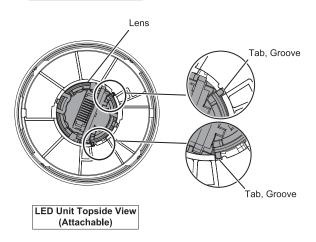
If LED Unit can't be attached well, try this procedure.



Turn the internal lens of the LED Unit counterlockwise until the tab fits in the groove.

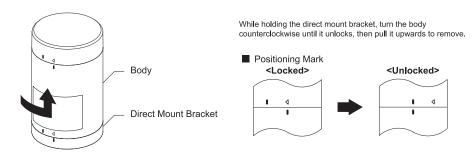
Attach the LED Unit to the product.

LED Unit Underside View

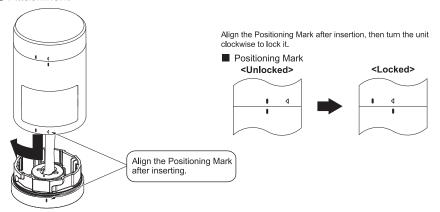


<Body Unit> (LR5-02WTN□, LR7-02WTN□)

Removal



Attachment



9 Troubleshooting

Prior to contacting your nearest PATLITE Sales Representative, refer to the following tips, and try to solve them in the following table.

No.	Problem	Where to Check	What to do
		Is the electric wiring connected correctly?	Refer to " 5 Wiring" (pg.15~19) for proper wiring.
1	The LED does not light up.	Is the power properly supplying the correct voltage?	Check the rated supply voltage.
		Is the fuse blown out?	If the fuse is blown out, replace it.
2	A different LED from what I thought lights up when it turns on.	Is the electric wiring connected correctly?	Refer to " 5 Wiring" (pg.15~19) for proper wiring.
		Is the electric wiring connected correctly?	Refer to " 5 Wiring" (pg.15~19) for proper wiring.
		Is the power properly supplying the correct voltage?	Check the rated supply voltage.
3	The Buzzer does not sound.	Is the fuse blown out?	If the fuse is blown out, replace it.
		Is it the proper product model?	The buzzer function is only included with products with a "B" in the model number.
4	The Buzzer volume is small.	Is the Buzzer volume set to minimum?	Refer to " 6 Buzzer Pattern Set-up" (pg.20) on how to adjust the volume.
		Is the electric wiring connected correctly?	Refer to " 5 Wiring" (pg.15~19) for proper wiring.
5	The LED does not flash.	Are the external contacts for lighting turning on?	Priority is given to the lighting input over the flashing input when simultaneous signals are applied.
		Is it the proper product model?	The flash function is only included with products with a " \boxed{B} " in the model number.

If the problem is not resolved after doing the procedure as above, refer to the end of this document for the contact information and contact the nearest PATLITE Sales Representative.

	Product Details						
Product Name	Signal Tower Purchase Date / /						
Model Number	(→ 2 Model Number Configuration (pg.3))	Situation of Failure	with as much detail as possible				

General Specifications (02)

	Model		LR□-□02□□□□						
	Rated Voltage			24V DC					
Operating	Voltage Ra	ange		Rated Voltage ±10%					
		Тур.		LED Unit: 40mA					
	Signal Wire Current					Buzzer Unit			
(Per U	nit)	Max.		LED Unit: 45mA					
						Buzzer Unit:			
Inrush Current	Power Sup		0.7A / Less than 0.5ms						
imaon danon	Signal	Wire				no			
Rated Po	ower	Typ.				LED Un			
Consum						Buzzer Unit			
(Per Ur	nit)	Max.				LED Unit			
						Buzzer Unit			
	_					LED Unit			
Standby Po	wer Consur	mption				Buzzer Un	it: 0.1	W	
						Body Uni		Э	
Operating Am						-20℃ ~			
Operating A						Less than 90% RH		ndensat	ion)
Storage Amb						-30℃ ~			
	nbient Hum					Less than 90% RH		ndensat	ion)
	ng Location					Indoo			
	ng Direction	า				Upr	•		
	ion Rating) / NEV	IA TYPI	E 4X,13
	ronmental (Upr			
	n Resistan			More than 1M Ω at 500VDC between live part and non-current carrying metallic part					
Withsta	and Voltage)	500VA	500VAC applied for 1min between live part and non-current carrying metallic part without breaking insulation					
	hing Rate			60±2 Flashes Per Minute					
	er Sound/		No.1 Rapid Intermittent Beep / 3378Hz			No.3		Rapid Hi-Lo / 2016Hz&3012Hz	
Typical	Frequency		No.2					Sweep Sound / 1000Hz-4032Hz	
		tting		Depending on DIP Switch settings. Refer to Section 6 "Buzzer Pattern Set-up".					
Outer	Dimensions	3	Refer to Section 3 "Part Names and Outer Appearance"						
						(LED Unit) + [E			
				WJ		g + (0.035kg)×Tiers + [0		Silver	0.32kg + (0.035kg)×Tiers + [0.035kg]
			LR4	LJ		g + (0.035kg)×Tiers + [0		Silver	
			LR4	PJ	Off-white 0.36	g + (0.035kg)×Tiers + [0	.035kg]	Silver	0.51kg + (0.035kg)×Tiers + [0.035kg]
				QJ	Off-white 0.17	g + (0.035kg)×Tiers + [0	.035kg]		
				WJ	Off-white 0.20k	g + (0.040kg)×Tiers + [0	.050kg]		
1	Mass		1.05	LJ	Off-white 0.49	g + (0.040kg)×Tiers + [0	.050kg]		
	ance ±10%)	LR5	PJ	Off-white 0.38	g + (0.040kg)×Tiers + [0	.050kg]		
,				WT	Off-white/Silver/E	ack 0.10kg			
				WJ	Off-white 0.22k	g + (0.060kg)×Tiers + [0	.060kg]	Silver	
			LR6	LJ	Off-white 0.50k	g + (0.060kg)×Tiers + [0	.060kg]	Silver	0.64kg + (0.060kg)×Tiers + [0.060kg]
			LINO	PJ	Off-white 0.40k	g + (0.060kg)×Tiers + [0	.060kg]	Silver	0.53kg + (0.060kg)×Tiers + [0.060kg]
				QJ	Off-white 0.46	g + (0.060kg)×Tiers + [0	.060kg]		
			LR7	WJ	Off-white 0.24	g + (0.065kg)×Tiers + [0	.070kg]		
			LK/	WT	Off-white/Silver/E	ack 0.15kg			
			LR4		Typic	al 85dB			
			LR5		Typic	al 85dB			eduction approximately -10dB,
Sound P	ressure Le	vel	LR6		Typic	al 88dB			g on DIP Switch settings. Section 6 "Buzzer Pattern Set-up"
			LR7		Typic	al 90dB	170	siei io c	section o Buzzer Fattern Set-up
Envi	Environmental Condition			Buzz			total cire	cumfrer	nce of the Buzzer Unit at 1m
Conformity Standards		rds	UL 508, CSA-C22.2 No. 14, EMC Directive (EN 61000-6-4, EN 61000-6-2) ROHS Directive (EN 50581), FCC Part 15 Subpart B Class A KC (KN 61000-6-4, KN 61000-6-2)						
			(*	1) Enviro	onmental Cond	tion: Buzzer Sound No.2	2 (Contir	nuous B	eep Sound)
R	emarks								
				(%2) LJ Type: IP54 Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness					
	of every product may occur.								

- This product is designed for use on a flat surface for a Type 1 Enclosure. (Conformity requirements for UL Standard)
- Use a "class 2" power supply specified in the guidelines under UL1310. (Conformity requirements for UL Standard)
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These restrictions are limited to cases where this equipment is operated in a business district, and it is designed to take the relevant protective measures against electromagnetic noise hindrance.
- This product must not be used in residential areas. (Conformity requirements for the CE Marking)

General Specifications (01)

l Model		LR5-□01□□W						
Rated Voltage		12V DC						
Operating Voltage Ra	ngo	Rated Voltage ±10%						
Operating voltage Na	I	LED Unit: 90mA						
Signal Wire Current	Signal Wire Current Typ.		Buzzer Unit : 90mA (%1)					
(Per Unit)			LED Unit					
(i di dilit)	Max.							
Power Su	oply Miro		Buzzer Unit : 300mA (※1) 0.7A / Less than 15ms					
Inrush Current					IIS			
Signal	vvire		none					
Rated Power	Тур.				W 45			
Consumption					· · · · · · · · · · · · · · · · · · ·			
(Per Unit)	Max.							
Standby Power Consu	mption		Buzzer Uni	t: 0.3V	N			
					1			
					densation)			
		Less than 90% RH (No Condensation)						
		Indoor Only						
		Upright						
Protection Rating		IP65(IEC 60529) (※2) / NEMA TYPE 4X,13						
Environmental	Condition	Upright						
Insulation Resistan	ce	More than 1MΩ at 500VDC between live part and non-current carrying metallic part						
Withstand Voltage	Э	500VAC applied for 1min Between live part and non-current carrying metallic part without breaking insulation						
Flashing Rate			60±2 Flashes	s Per Mir	nute			
Buzzer Sound/		No.1	Rapid Intermittent Beep / 3378Hz	No.3	Rapid Hi-Lo / 2016Hz&3012Hz			
Typical Frequency	/	No.2	Continuous Beep Sound / 3378Hz	No.4	Sweep Sound / 1000Hz-4032Hz			
Set	ting		Depending on DIP Switch settings. R	efer to S	Section 6 "Buzzer Pattern Set-up".			
Outer Dimensions	3	Refer to Section 3 "Part Names and Outer Appearance"						
		(LED Unit) + [Buzzer Unit]						
Mass								
(Tolerance ±10%)	LJ	g (g)					
		PJ						
Sound Pressure Level			Sound Reduction approximately -10dB, Typ.80dB depending on DIP Switch settings.					
Environmental Condition		Refer to Section 6 "Buzzer Pattern Set-up" Buzzer sound No.4 was measured from the total circumference of the Buzzer Unit at 1m						
Conformity Standards		UL 508, CSA-C22.2 No. 14, EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581), FCC Part 15 Subpart B Class A						
			,	•	, , , , , , , , , , , , , , , , , , ,			
		,	 Environmental Condition: Buzzer sound No.2 	(Continu	uous Beep Sound)			
Remarks		,	2) LJ Type: IP54					
				ariation	in difference of the color tone and brightness			
Rated Power Consumption (Per Unit) Standby Power Consumption (Per Unit) Standby Power Consu Operating Ambient Temp Operating Ambient Hu Storage Ambient Hu Storage Ambient Hu Mounting Location Mounting Directio Protection Rating Environmental I Insulation Resistan Withstand Voltage Flashing Rate Buzzer Sound/ Typical Frequency Set Outer Dimensions Mass (Tolerance ±10% Sound Pressure Lee Environmental I	Typ. Max. mption perature midity erature nidity n n Condition ce	No.1 No.2 WJ LJ PJ	LED Unit Buzzer Unit: LED Unit Buzzer Unit: LED Unit Policy Unit -20°C ~ Less than 90% RH -30°C ~ Less than 90% RH Indoor Upri IP65(IEC 60529) (%2) Upri More than 1MΩ at 500VDC between live; C applied for 1min Between live part and non-cu 60±2 Flasher Rapid Intermittent Beep / 3378Hz Continuous Beep Sound / 3378Hz Continuous Beep Sound / 3378Hz Continuous Beep Sound / 378Hz Depending on DIP Switch settings. R Refer to Section 3 *Part N (LED Unit) 0.2kg + (0.0 0.38kg + (0.0 Typ.80dB Buzzer sound No.4 was measured from the UL 508, CSA-C22.2 No. 14, EMC Direc ROHS Directive (EN 50581), F KC (KN 61000-6-4) 1) Environmental Condition: Buzzer sound No.2	t: 1W 1.1W (1 1.2W (1	#1) W // densation) densation) A TYPE 4X,13 mon-current carrying metallic part rrying metallic part without breaking insulat nute Rapid Hi-Lo / 2016Hz&3012Hz Section 6 "Buzzer Pattern Set-up". and Outer Appearance" rer Unit! rs + [0.05kg] rs + [0.05kg] und Reduction approximately -10dB, perfort Section 9 "Buzzer Pattern Set-up" cumference of the Buzzer Unit at 1m N 61000-6-4, EN 61000-6-2) 15 Subpart B Class A 000-6-2) Jours Beep Sound)			

- This product is designed for use on a flat surface for a Type 1 Enclosure.
 (Conformity requirements for UL Standard)
- Use a "class 2" power supply specified in the guidelines under UL1310. (Conformity requirements for UL Standard)
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These restrictions are limited to cases where this equipment is operated in a business district, and it is designed to take the relevant protective measures against electromagnetic noise hindrance.
- This product must not be used in residential areas. (Conformity requirements for the CE Marking)

Genera	al Spe	ecific	ation	s (M2)				
	Model		LR□-□M2□□□W						
	d Voltage		100-240V AC (50/60Hz)						
	Voltage Ra	ange			90-250V AG	_	,		
	· onego · n	l			LED Unit		,		
Signal Wire	Current	Тур.		Buzzer Unit : 40mA (%1)					
(Per U				LED Unit : 45mA					
		Max.			Buzzer Unit	300mA	(※1)		
	Power Su	onh. Miro			at 25°C ∶ 25A/ Less t	than 2ms	(Cold-start)		
Inrush Current	Power Su	ppiy wire			at 50°C ∶ 50A/ Less t	than 2ms	(Cold-start)		
	Signal	Wire			no	ne			
		Т			LED Unit	t: 1.5W	1		
Rated Po Consum		Тур.			Buzzer Unit	: 1.5W ((*1)		
(Per Ur		Max.			LED Unit	t: 1.8W			
	,	wax.			Buzzer Unit	: 1.8W (*1)		
					LED Uni	t : none			
Standby Po	wer Consu	mption			Buzzer Ur	nit : 0.2\	N		
					Body Uni	t: 0.2W	V		
Operating Am	bient Temp	perature			-20℃ ~	~ +50°C			
Operating A	mbient Hu	midity	Less than 90% RH (No Condensation)						
Storage Amb			-30℃ ~ +60℃						
Storage Ar			Less than 90% RH (No Condensation)						
	ng Locatio		Indoor Only						
	ng Directio		Upright						
	tion Rating		IP65(IEC 60529) / NEMA TYPE 4X,13						
	ronmental		Upright						
	n Resistan		More than 1MΩ at 500VDC between live part and non-current carrying metallic part						
	and Voltage	9	1500VAC applied for 1min Between live part and non-current carrying metallic part without breaking insulation						
	hing Rate		60±2 Flashes Per Minute						
	er Sound/		No.1		apid Intermittent Beep / 3378Hz	No.3	Rapid Hi-Lo / 2016Hz&3012Hz		
i ypicai	Frequency		No.2	С	ontinuous Beep Sound / 3378Hz	No.4	Sweep Sound / 1000Hz-4032Hz		
		ting			Depending on DIP Switch Settings. I		•		
Outer	Dimensions	3			Refer to Section 3 "Part I				
					1		zzer Unit]		
	Mass		LR4	WJ			Tiers + [0.035kg]		
(Tolera	ance ±10%)		PJ	•		Tiers + [0.035kg]		
			LR6	WJ			First + [0.060kg]		
			1.04	PJ			Fiers + [0.060kg]		
Sound Pr	essure Lev	el	LR4		Typ.85dB	depe	nd Reduction approximately -10dB, ending on DIP Switch settings.		
			LR6		Typ.88dB		r to Section 6 "Buzzer Pattern Set-up"		
Envi	ronmental (Condition		Buzz	er sound No.4 was measured from the	total circ	cumference of the Buzzer Unit at 1m		
		UL 508, CSA-C22.2 No. 14, EMC Directive (EN 61000-6-4, EN 61000-6-2) RoHS Directive (EN 50581), FCC Part 15 Subpart B Class A KC (KN 61000-6-4, KN 61000-6-2)							
(※1) Environmental Condition: Buzzer sound No.2 (Continuous Beep Due to the characteristics of the LED elements, a variation in difference of every product may occur.									

- When a regulated power supply is not being used, select a fuse that meets class CC or more.
- Use a fuse holder with UL standard certification. (Conformity requirements for UL Standard)
- This product is designed for use on a flat surface for a Type 1 Enclosure. (Conformity requirements for UL Standard)
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These restrictions are limited to cases where this equipment is operated in a business district, and it is designed to take the relevant protective measures against electromagnetic noise hindrance.
- This product must not be used in residential areas. (Conformity requirements for the CE Marking)

11 Replacement Parts

The following replacement parts for this product are available for the customer to change or replace.

Replacement Parts for LR4						
O-ring 40	Head Cover 40 [W/U]	Pole Bracket 40 [W/U]	Filter Sheet 40			
5 pcs.	°		5 pcs.			

Replacement Parts for LR5						
O-ring 50	Head Cover 50 [W/U/K]	Pole Bracket 50 [W/U/K]	Filter Sheet 50			
	°					
5 pcs.			5 pcs.			

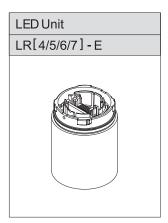
Replacement Parts for LR6							
O-ring 60	Head Cover 60 [W/U]	Pole Bracket 60 [W/U]	Filter Sheet 60				
	°						
5 pcs.			5 pcs.				

Replacement Parts for LR7					
O-ring 70	Head Cover 70 [W/U/K]	Filter Sheet 70			
5 pcs.	0	5 pcs.			

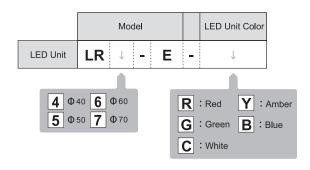
Replacement Parts for WT	Replacement Parts for LR4/LR5/LR6
Terminal Block	Pole Waterproof Ring
00000000	

12 Optional Parts

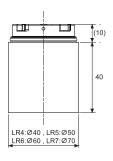
The following optional parts are available for this product. (Upper: Product Name, Lower: Model)



Model Number Configuration

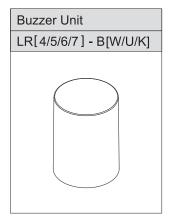


Outer Dimensions

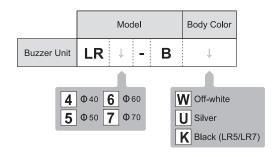


General Specifications

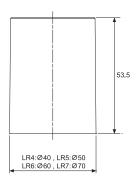
Model		LR□-E-□	
Operating Ambient Temperature		-20℃ ~ +50℃	
Operating Ambient H	umidity	Less than 90% RH (No Condensation)	
	LR4	0.035kg	
Mass	LR5	0.040kg	
(Tolerance ±10%)	LR6	0.060kg	
	LR7	0.065kg	
		UL508, CSA-C22.2 No. 14	
Conformity Star	onformity Standards EMC Directive (EN 61000-6-4, EN 61000-6-2)		
		RoHS Directive (EN 50581)	
Remarks		Due to the characteristics of the LED elements, a variation in difference of the color tone and brightness of every product may occur.	



Model Number Configuration

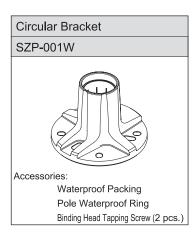


Outer Dimensions

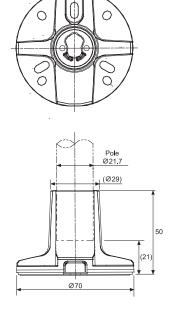


General Specifications

Model			L	R□-B□	
Operating Ambie	ent Temp	erature	-20°C ∼ +50°C		
Operating Am	bient Hur	nidity	Less than 90% F	RH (No Condensation)	
			0	.035kg	
Mass		LR5	0	.050kg	
(Tolerance ±1	10%)	LR6	0	.060kg	
		LR7	0	.070kg	
		No.1	Rapid Intermitt	ent Beep/ 3378Hz	
Buzzer Sound/		No.2	Continuous Beep Sound/ 3378Hz		
Typical Freq	uency	No.3	Rapid Hi-Lo/ 2016Hz&3012Hz		
		No.4	Sweep Sound/ 1000Hz-4032Hz		
		LR4	Typ.85dB	Sound Reduction approx. -10dB, depending on DIP Switch settings. Refer to Section 6 "Buzzer	
		LR5	Typ.85dB (%Typ.80dB)		
Sound Pressure	e Level	LR6	Typ.88dB		
		LR7	Typ.90dB	Pattern Set-up"	
	Environmental Condition		Buzzer sound No.4 was measured from the total circumference of the buzzer Unit at 1m		
			UL508, C	SA-C22.2 N	
Conformity	Standard	de.	EMC Directive (EN	61000-6-4, EN 61000-6-2)	
Cornornity	Stariuart	19	RoHS Directive (EN 50581)		
			FCC Part 15 Subpart B Class A		
Ren	narks		When LR5-01 (12V DC type) is attached.		



Outer Dimensions



Compatible Models

LR4-PJ QJ, LR5-PJ, LR6-PJ QJ

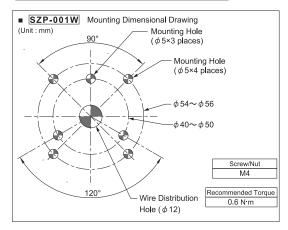
Compatible Pole

POLE22-0100AN, POLE22-0300AN

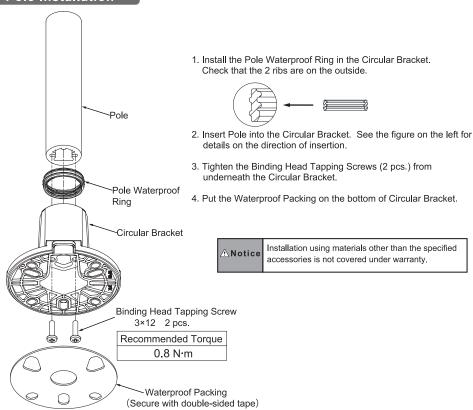
Specifications

Model	SZP-001W
Mounting Location	Indoor Only
Protection Rating	IP65 (with product attached)
Material	PC
Mass (Tolerance ±10%) ※ No Accessories	0.04kg
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.

⟨Note⟩ • It's possible to run a cable out from the side.



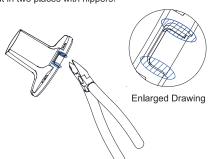
Pole Installation



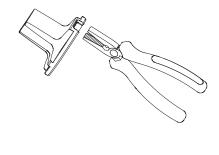
Cutting a side-hole for cable (Procedure)

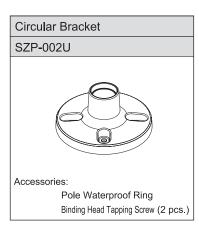
This part has perforations to make it possible to run a cable out from the side.

 Refer to the enlarged drawing and cut the outlined part of the bracket.
 Cut in two places with nippers.



2. Break off the outlined part with pliers. If there are burrs, carefully remove with plyers or a file.





Outer Dimensions

Compatible Models

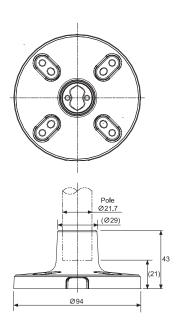
LR4-PJ QJ,LR5-PJ,LR6-PJ QJ

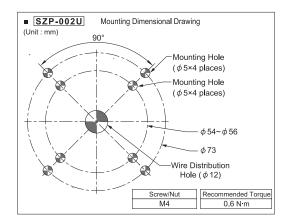
Compatible Pole POLE22-0100AN POLE22-0300AN, POLE22-0800AN

Specifications

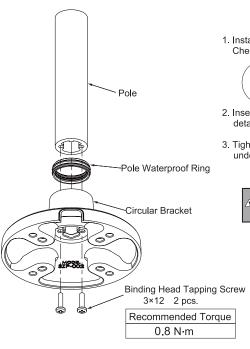
Model	SZP-002U		
Mounting Location	Indoor Only		
Protection Rating	IP20 (with product attached)		
Material	ADC12		
Mass (Tolerance ±10%) ※ No Accessories	0.11kg		
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.		

⟨Note⟩ • It's possible to run a cable out from the side.





Pole Installation



1. Install the Pole Waterproof Ring in the Circular Bracket. Check that the 2 ribs are on the outside.

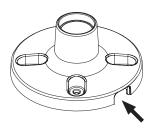


- Insert Pole into the Circular Bracket. See the figure on the left for details on the direction of insertion.
- 3. Tighten the Binding Head Tapping Screws (2 pcs.) from underneath the Circular Bracket.

⚠ Notice Installation using materials other than the specified accessories is not covered under warranty.

Running a cable out from the side-hole

This part has perforations to make it possible to run a cable out from the side. Refer to the diagram below and run the cable where the arrow indicates the outlet.



Circular Bracket SZP-003W Accessories: Waterproof Packing Pole Waterproof Ring Binding Head Tapping Screw (2 pcs.)

Compatible Models

LR4-PJ QJ,LR5-PJ,LR6-PJ QJ

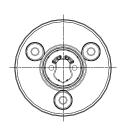
Compatible Pole

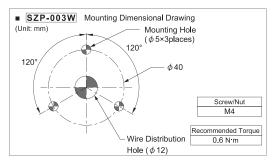
POLE22-0100AN, POLE22-0300AN

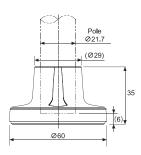
Specifications

Model	SZP-003W		
Mounting Location	Indoor Only		
Protection Rating	IP65 (with product attached)		
Material	PC		
Mass (Tolerance ±10%) ※ No Accessories	0.03kg		
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.		

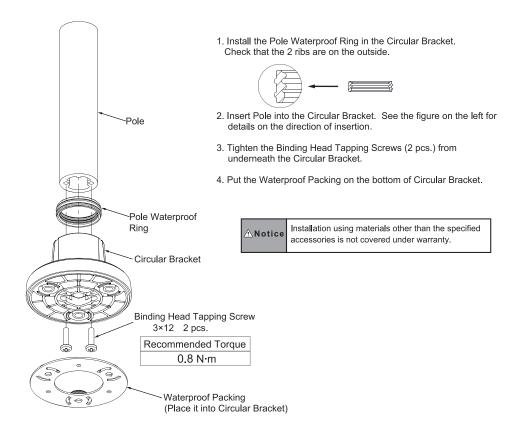
Outer Dimensions

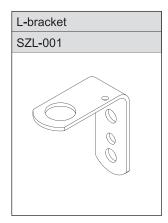






Pole Installation





Compatible Models

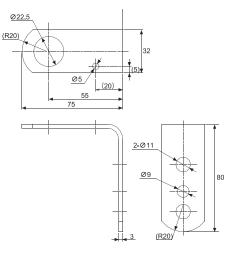
LR4-LJ,LR5-LJ,LR6-LJ

POLE22-0300AT POLE22-1000AT

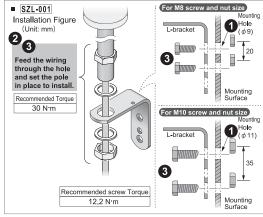
Specifications

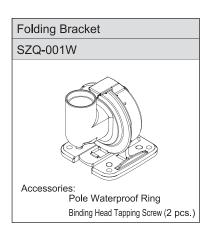
Model	SZL-001		
Mounting Location	Indoor Only		
Material	SPHC-P		
Mass (Tolerance ±10%)	0.09kg		
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.		

Outer Dimensions



[Installation Figure]





Outer Dimensions

Compatible Models

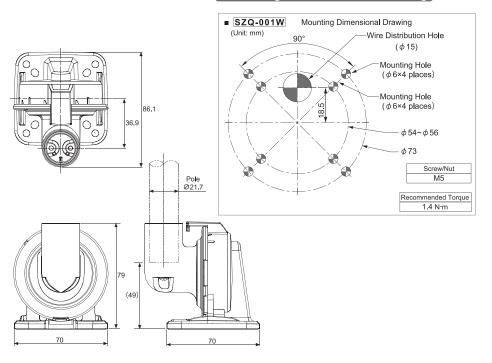
LR4-PJ QJ,LR5-PJ,LR6-PJ QJ

Compatible Pole

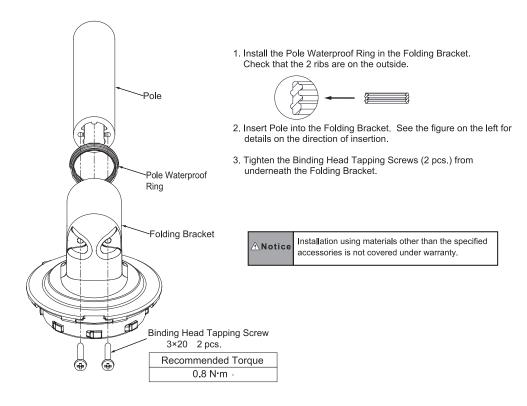
POLE22-0100AN, POLE22-0300AN

Specifications

_		
Model	SZQ-001W	
Mounting Location	Indoor Only	
Protection Rating	IP65 (with product attached)	
Material	PC	
Mass (Tolerance ±10%) ※ No Accessories	0.09kg	
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.	



Pole Installation





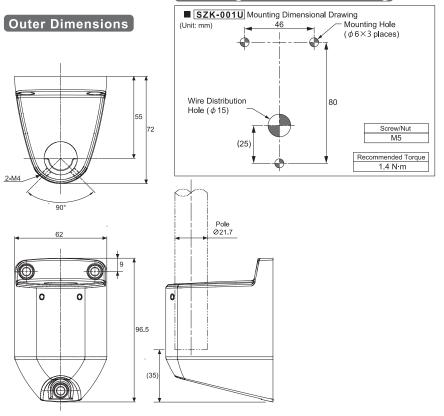


LR6-PJ QJ

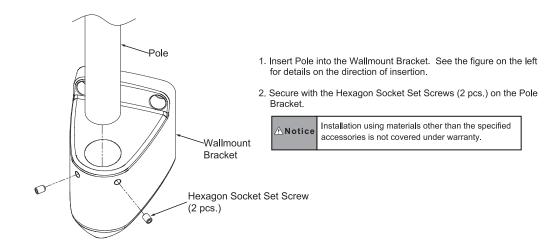
Compatible Pole POLE22-0100AN POLE22-0300AN **POLE22-0800AN**

Specifications

Model	SZK-001U	
Mounting Location	Indoor Only	
Protection Rating	IP20 (with product attached)	
Material	ADC12	
Mass (Tolerance ±10%) ※ No Accessories	0.19kg	
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.	



Pole Installation



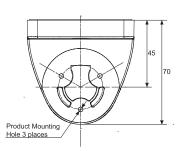
Wallmount Bracket SZK-002 [W/U]

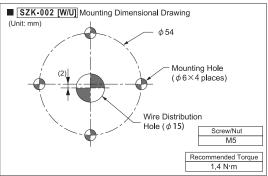
Compatible Models LR4-WJ,LR5-WJ WT

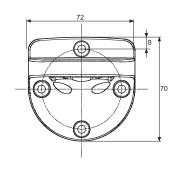
Specifications

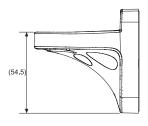
Model	SZK-002 [W/U]
Mounting Location	Indoor Only
Protection Rating	IP65 (with product attached)
Material	PC
Mass (Tolerance ±10%)	0.06kg
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.

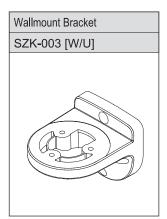
Outer Dimensions







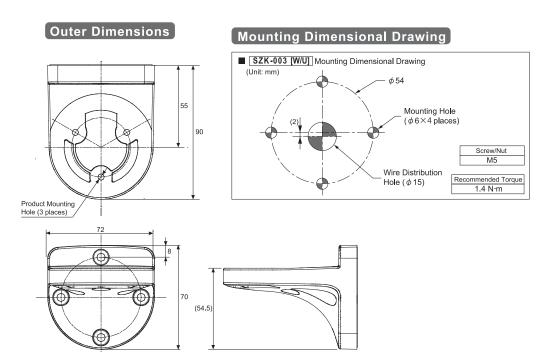




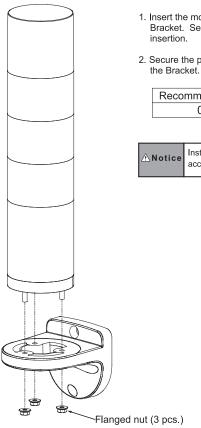
Compatible Models LR6-WJ,LR7-WJ WT

Specifications

Model	SZK-003 [W/U]
Mounting Location	Indoor Only
Protection Rating	IP65 (with product attached)
Material	PC
Mass (Tolerance ±10%)	0.07kg
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.



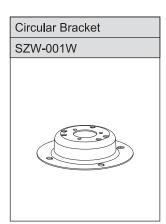
Product Attachment



2. Secure the product with the flanged nuts (3 pcs.) from underneath the Bracket.

Recommended Torque 0.6 N·m

e Installation using materials other than the specified accessories is not covered under warranty.



Compatible Models

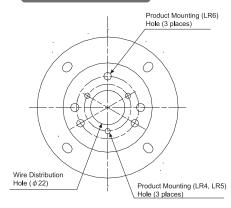
LR4 - WJ LR5 - WJ WT

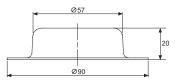
LR6 - WJ

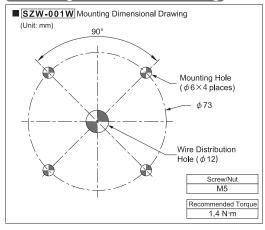
Specifications

Model	SZW-001W		
Mounting Location	Indoor Only		
Material	SPCE		
Mass (Tolerance ±10%)	0.06kg		
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.		

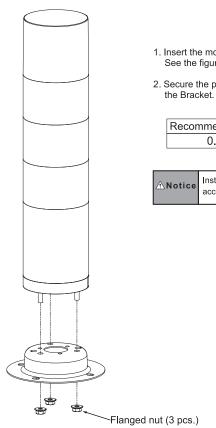
Outer Dimensions







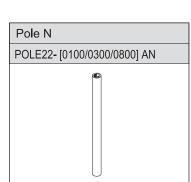
Product Attachment



- Insert the mounting screws of the product into the Circular Bracket.
 See the figure on the left for details on the direction of insertion.
- 2. Secure the product with the flanged nuts (3 pcs.) from underneath the Bracket

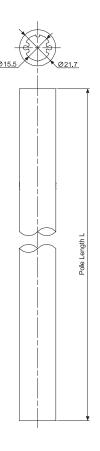
Recommended Torque 0.6 N·m

Installation using materials other than the specified accessories is not covered under warranty.



Accessory: Binding Head Tapping Screw (2pcs.)

Outer Dimensions



Compatible Models

LR4-PJ LJ QJ

LR5-PJ LJ,LR6-PJ LJ QJ

Compatible Optional Parts

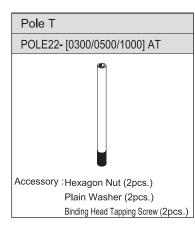
	SZP-001W	SZP-002U	SZP-003W	SZQ-001W	SZK-001U
POLE22-0100AN	0	0	0	0	0
POLE22-0300AN	0	0	0	0	0
POLE22-0800AN	×	0	×	×	0

Specifications

Model	POLE22-0100AN	POLE22-0300AN	POLE22-0800AN
Mounting Location	Indoor Only		
Pole length L (mm)	100	300	800
Material	AL		
Mass (Tolerance ±10%) ※ No Accessories	0.05kg	0.16kg	0.42kg
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.		

⚠Notice

- Use a pole which is 300mm or less in length when using a resin bracket.
- Use an AL Bracket when using a pole which is 500mm or more in length.



Compatible Models

LR4-PJ LJ QJ

LR5-PJ LJ,LR6-PJ LJ QJ

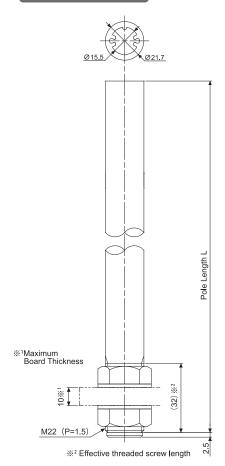
Compatible Optional Parts

SZL-001

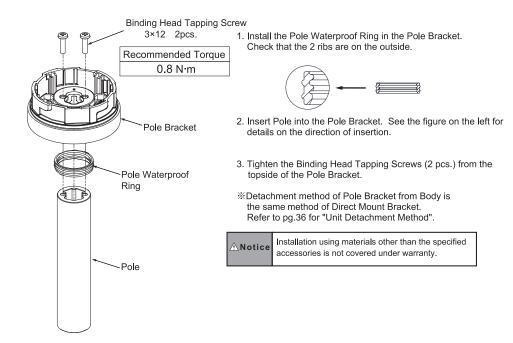
Specifications

Model	POLE22-0300AT	POLE22-0500AT	POLE22-1000AT	
Mounting Location	Indoor Only			
Pole Length L (mm)	300 500 1000			
Material	AL			
Mass (Tolerance ±10%) ※ No Accessories	0.15kg 0.26kg 0.52kg			
Remarks	There are no contents of controlled substances exceeding the threshold for the RoHS Directive.			

Outer Dimensions



Pole Bracket Installation



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(Note) • Dimensions and specifications may change without notice due to continual product improvement.

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