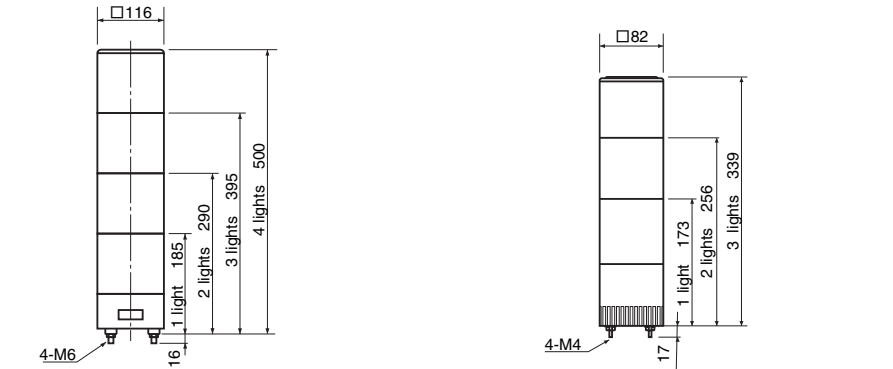


8. SPECIFICATIONS

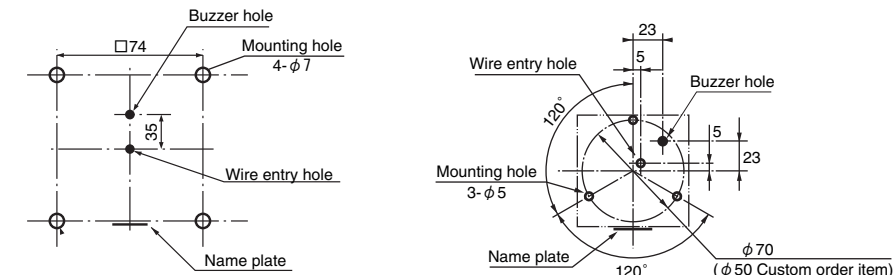
1. Dimensions (Unit : mm)

Type KJ,KJB	Type KJS,KJSB,KES,KESB
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2. Mounting Dimensions (Unit : mm)

Type KJ,KJB	Type KJS,KJSB,KES,KESB
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3.Specifications

Type KJ,KJB

Style	Model	Rated voltage	Rated current	Flash per minute	Bulb	Mass
1 light	KJ(B)-102	24V DC	0.5A	130 flashes par minute	24V 10W	1.0Kg
	KJ(B)-110	100V AC	0.1A		12V 5W	1.2Kg
	KJ(B)-112	110~120V AC				
	KJ(B)-120	220V AC	0.05A			
KJ(B)-124	240V AC					
2 lights	KJ(B)-202	24V DC	1.0A	130 flashes par minute	24V 10W	1.5Kg
	KJ(B)-210	100V AC	0.13A		12V 5W	2.0Kg
	KJ(B)-212	110~120V AC				
	KJ(B)-220	220V AC	0.07A			
KJ(B)-224	240V AC					
3 lights	KJ(B)-302	24V DC	1.5A	130 flashes par minute	24V 10W	2.0Kg
	KJ(B)-310	100V AC	0.18A		12V 5W	2.5Kg
	KJ(B)-312	110~120V AC				
	KJ(B)-320	220V AC	0.09A			
KJ(B)-324	240V AC					
4 lights	KJ(B)-402	24V DC	2.0A	130 flashes par minute	24V 10W	2.5Kg
	KJ(B)-410	100V AC	0.26A		12V 5W	3.0Kg
	KJ(B)-412	110~120V AC				
	KJ(B)-420	220V AC	0.13A			
KJ(B)-424	240V AC					

※ Bulb type Glass G18 Base BA15S (Spare bulb : 1)
※ Type KJB : Buzzer (Sound volume may be adjusted via the control on the bottom of the body.

	Wire type / Dia	Lead wire
Power supply wire (100V~240V AC only)	VCT / 0.75mm ²	Approx. 280mm
Lead wire	VW-HT / 0.5mm ²	Approx. 300mm

Type KJS,KJSB						
Style	Model	Rated voltage	Rated current	Flashing cycle	Bulb	Mass
1 light	KJS(B)-101	12V DC	0.5A	160 fashes par minute	12V 5W	0.5Kg
	KJS(B)-102	24V DC			24V 10W	
	KJS(B)-110	100V AC	0.06A		12V 5W	0.7Kg
	KJS(B)-112	110~120V AC				
	KJS(B)-120	220V AC	0.03A			
	KJS(B)-124	240V AC				
2 lights	KJS(B)-201	12V DC	1.0A	160 fashes par minute	12V 5W	0.8Kg
	KJS(B)-202	24V DC			24V 10W	
	KJS(B)-210	100V AC	0.1A		12V 5W	1.2Kg
	KJS(B)-212	110~120V AC				
	KJS(B)-220	220V AC	0.05A			
	KJS(B)-224	240V AC				
3 lights	KJS(B)-301	12V DC	1.5A	160 fashes par minute	12V 5W	1.2Kg
	KJS(B)-302	24V DC			24V 10W	
	KJS(B)-310	100V AC	0.2A		12V 5W	1.6Kg
	KJS(B)-312	110~120V AC				
	KJS(B)-320	220V AC	0.1A			
	KJS(B)-324	240V AC				

※ Bulb type Glass G18 Base BA15S (Spare bulb : 1)
※ Type KJSB : Buzzer

	Wire type / Dia	Lead wire
Power supply wire	UL1007 AWG 20	Approx. 280mm
Lead wire	UL1007 AWG 22	

Type KES,KESB

Style	Model	Rated voltage	Power consumption	Flashing cycle	Mass
1 light	KES(B)-102	24V DC	6W MAX	110 flashes par minute	0.4Kg
	KES(B)-110	100V AC			0.8Kg
	KES(B)-112	110~120V AC			
	KES(B)-120	220V AC			
	KES(B)-124	240V AC			
2 lights	KES(B)-202	24V DC	12W MAX	110 flashes par minute	1.0Kg
	KES(B)-210	100V AC			1.4Kg
	KES(B)-212	110~120V AC			
	KES(B)-220	220V AC			
	KES(B)-224	240V AC			
3 lights	KES(B)-302	24V DC	18W MAX	110 flashes par minute	1.4Kg
	KES(B)-310	100V AC			1.8Kg
	KES(B)-312	110~120V AC			
	KES(B)-320	220V AC			
	KES(B)-324	240V AC			

※ Power consumption will vary slightly according to color (red, amber and green).
※ Type KESB : Buzzer

	Wire type / Dia	Lead wire
Power supply wire	UL1007 AWG 20	Approx. 280mm
Lead wire	UL1007 AWG 22	

※Specifications are subject to change without notice.

Caution

● We are not in a position to be responsible for damage and trouble caused by handling against caution and warning described in this instruction manual.

PATLITE Corporation

International Division Sales & Marketing Department

8-8 Matsuya-machi, Chuo-ku, Osaka 542-0067 JAPAN

PATLITE (U.S.A.) Corporation

20130 S. Western Avenue, Torrance, CA 90501 U.S.A.

PATLITE (SINGAPORE) PTE LTD

No.2 Leng Kee Road, #05-01 Thye Hong Centre, Singapore 159086

PATLITE (CHINA) Corporation

Room 512, Jufeng Business Building, No.697-3 Lingshi Road, Shanghai 200072, China

PATLITE Corporation/European Office

Teinfaltstrasse 8/4 Stock, 1010, Vienna, Austria

http://www.patlite.co.jp/int/

TEL. +81-6-6763-8220

FAX. +81-6-6763-8221

TEL. +1-310-328-3222

FAX. +1-310-328-2676

TEL. +65-6226-1111

FAX. +65-6324-1411

TEL. +86-21-6630-8969

FAX. +86-21-6630-8938

TEL. +43-1-961-0655

FAX. +43-1-961-0655-210

PATLITE

Cube Tower

INSTRUCTION MANUAL

[TYPE : KJ(B),KJS(B),KES(B)]

2056-K
A95100060
FA001

Thank you for specifying the **PATLITE Cube Tower**® for your application.
Please read this manual before installing this system, and keep it carefully.
In the case of maintenance, inspection and repair, please read this manual carefully.
If you have question of this product, please feel free to contact us.

TO OPERATE THIS PRODUCT SAFELY, PLEASE OBSERVE THE FOLLOWINGS

[NOTES TO BE OBSERVED FOR SAFE OPERATION]

Note to be followed to prevent any damage to the user and other personnel or to assets are as follows:
■ 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

This symbol marks important instructions that, if ignored or incorrectly followed, could conceivably lead to death or serious injury.

Caution

This symbol marks important instructions that, if ignored or incorrectly followed, could conceivably lead to injury or property damage.

Warning

- Turn off the power supply before making wiring connections. Neglecting to so may cause an electric shock.
- Wiring should be careful enough there to be for no mistake. If wiring is mistaken,an internal circuit will be damaged and it will become the cause of a fire.
- When the installation of this product requires the construction, please ask to specialist. Electric shock, fire and fall may occur.
- When you use this product for security purpose, routine inspection must be done. Just in case of emergency we recommend you to use this product together with other security product.
- Do not use this product without lens or with cracked lens. It may cause electric shock.
- Make sure power is turned off and the temperature of electric bulb falls down for repair to avoid electric shock and burn.
- Make sure power is turned off when checking or changing a fuse or bulb to prevent danger of electric shock.

Caution

- Use only specified operating voltage. Excess voltage hastens degradation.
- Make sure to set fuse in a power supply side, please connect a fuse.
- To clean lens, head cover, and case, wipe with water or glass cleaner soaked soft cloth.
- Do not use thinner or benzene as these cause color change or deform the surface.

In an installation where there is violent vibration, the bulb life will be reduced. Observe the following precautions:

- Avoid mounting directly on equipment that vibrates or is subject to shock.
- Avoid mounting on a pillar or wall in such a way that the unit would be subject to vibration. Use a mounting angle (stay) that is strong enough to support the rotating light against wind and vibration.

- Do not use the hands to rotate the reflector.
- Do not oil the motor and rotor. (Neither will it rotate if oil enters the motor.)

1. PARTS NAME

Reflector

Bulb

※LED type light source for KES(B)series.

Motor

Body

Name plate

※Lot number indicated.

Lead wire

Type KJS(B) Spare bulb

※Attach it in the upper section

Type KJ(B) Spare bulb

※Attach it in the upper section

Rubber packing

Power supply wire

Screw

Head cover

Lens

LED unit

Buzzer volume controller

• Type KES、KESB only

• Type KJB only

- The replacement parts are prepared. Please ask your local distributor for availability.
- Lens (per type, per color)
- Reflector (per type)
- Bulb (per type, per voltage)
Type KJ(B), KJS(B) only
- Head cover (per type)
- Rubber packing (per type)
- Motor (per type, per voltage)
- LED unit (per color, per voltage : Type KES(B) only)

3. TYPE NO. CONFIGURATION



- Cube tower must be installed in a vertical position where it has enough strength and less vibration. Do not install it horizontally or reversely.
- If the unit is to be installed in a high location, be sure to select a spot that affords easy service by maintenance personnel.

- ※ For KJS(B) and KES(B) types: If the power and

※ For KJS(B) and KES(B) types: Refer to the mounting template provided for correct location of the holes.

- Turn off the power supply before making wiring connections. Neglecting to do so may cause an electric shock.
- When you have questions for the method of special operation or plural units operation, we recommend you to ask our customer service before wiring.
- Do not pull lead wire and push it in body when wiring.
- Wiring should be careful enough there to be for no mistake. If wiring is mistaken, an internal circuit will be damaged and it will become the cause of a fire.
- During connection, refer to the wiring example. Be sure to use crimp type terminal connectors.
- Make sure to set fuse in a power supply side, please connect a fuse.
- Make sure of the specified operating voltage and current before use.
- Use only specified operating voltage. Excess voltage hastens degradation.
- Make sure not to use any other bulbs except ones described in specifications.

- Two or more units(100-240V)to be conducted parallel operation,make sure to connect white and black power supply wire as shown below.



-
- The diagram shows two wiring configurations for the 4-channel relay module. The left configuration is for a 24V DC power supply, featuring a 10A fuse and a common ground. The right configuration is for a 100V AC power supply, featuring a 3A fuse and a common ground. Both configurations include a 4-pin header, four relays with colored terminals (Red, Yellow, Green, Blue), two buzzers (Type K1B only), and a common terminal (COM). The AC version also includes a black terminal for the power supply.

Be sure that the ends of all unused wires are insulated.

※ The lamps are numbered 1.2.3.etc.. starting with the bottom unit.

※ Be sure to install a fuse on the power supply end.

✕ Refer to Table 2 for the selection of a contact capacity sufficient to handle the initial current, or use a relay as required.

Lead wire color (Type KJ, KJB)

	Normal current	Initial current	Contact capacity
For rotating light signal wire	450mA	4.5A	50V,5A
For Buzzer signal wire	30mA	0.3A	50V,1A

3
2
1

3
2
1

Buzzer
Buzzer
Buzzer
COM

Red
Yellow
Blue
Gray
Gray
Gray
Brown

Outer contact

Type KJSB, KESB only

Black
White

Fuse(5A)

Power supply
12V DC
24V DC
100V AC
120V AC
220V AC
240V AC

※As for a KES(B) type,
this use cannot 12V model.

Be sure that the ends of all unused wires are insulated.

※ The lamps are numbered 1.2.3.etc.. starting with the bottom unit.

※ The power wires for the AC 100,120,220,240-volt version are not polarized ⊕ or ⊖.

※ Be sure to install a fuse on the power supply end.

※ Use a switch contact capacity of at least 50 mA for the lamp and not less than 300 mA for the buzzers.

Lead wire color (Type KJS, KJSB,KES,KESB)

3. Type KJS(B), KES(B)

3
2
1

3
2
1

Buzzer
Buzzer
Buzzer

COM

Red
Yellow
Blue
Gray
Gray
Gray
Brown
Black
White

Power supply
12V DC
24V DC
100V AC
120V AC
220V AC
240V AC

※As for a KES(B) type
this use cannot
12V model.

- ※ Use a small-current, no-voltage contact (twin contacts recommended) or an open-collector transistor.
- ※ Absolutely do not connect direct power in a signal wire, damage the internal circuit.

1. Change Lens

- ① Make sure power is turned off when changing lens.
- ② Loosen head cover screw, then put the lens off
- ③ Put in the new lens, then installing head cover.

※ Be sure to reinstall the rubber paking to the body globe and head cover (one size for all applications), or the unit will no longer be splash proof.



- ① Make sure power is turned off when changing bulb.
- ② Remove lens. (Refer to the "Change Lens" instruction mentioned above.)
- ③ The bulb can be easily removed by pressing it downward to turn to left.
- ④ The new bulb can be easily installed by pressing it downward to turn to right.
- ⑤ Put in the lens, then installing head cover.

※ Make sure not to use any other bulbs except ones described in specifications.

※ If you have any questions of the product, please feel free to contact us.

- Please check the list shown below before requesting repairs. If the product still not work, please contact us for repairs.
Please feel free to contact our sales office with any questions concerning the product.

※ Please note that any malfunction or damage resulting from modification by the customer will not be covered under the warranty.