

## 1. Dimensions (Unit : mm)

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				
	KJ(B)-124	240V AC	0.05A			
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				
	KJ(B)-224	240V AC	0.07A			
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				
	KJ(B)-324	240V AC	0.09A			
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				
	KJ(B)-424	240V AC	0.13A			

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

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

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Power supply wire	UL1007 AWG 20	Approx. 280mm
Lead wire	UL1007 AWG 22	

**Caution**

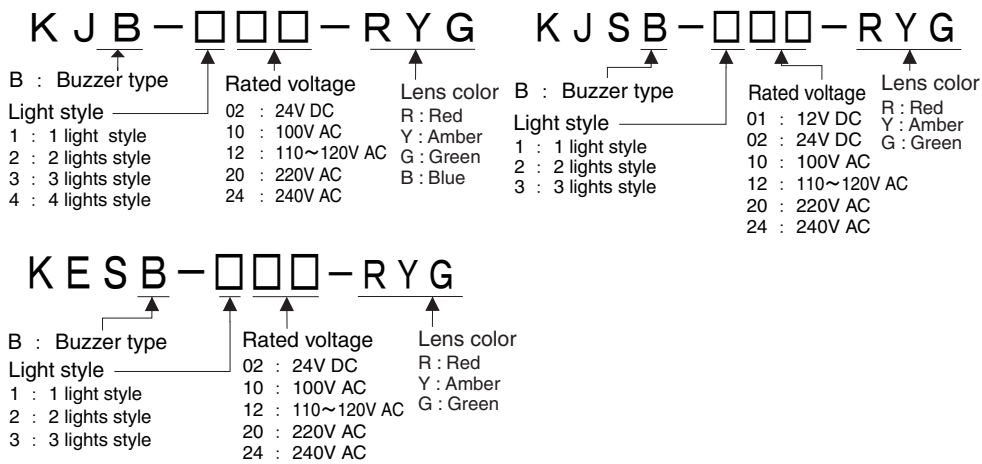
● We are not in a position to be responsible for damage and trouble caused by handling against caution and warning described in this instruction manual.

2056-K
'09.4.AUTO

- 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



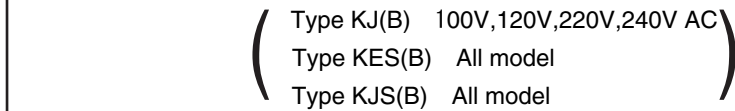
**Caution**

- 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.

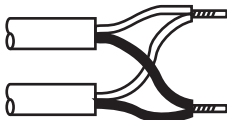
- ※ For KJS(B) and KES(B) types: Refer to the mounting template provided for correct location of the holes.

**⚠ Caution**

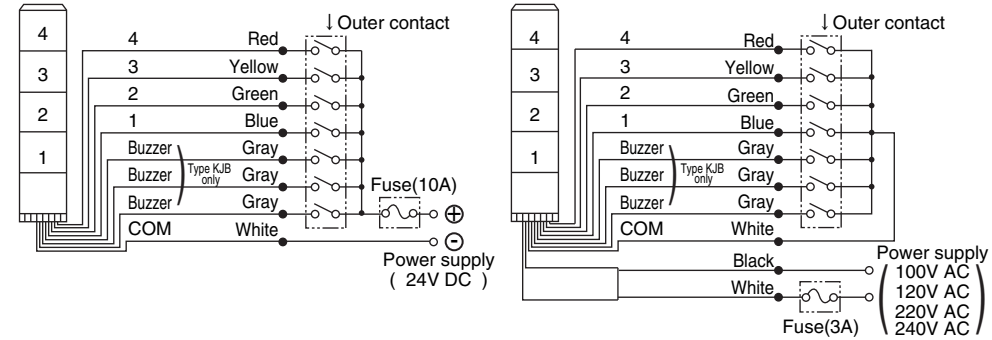
- Turn off the power supply before making wiring connections. Neglecting to do so may cause an electric shock.
- When you have questions for the method of special operation or plural units operation, we recommend you to ask our customer service before wiring.
- Do not pull lead wire and push it in body 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.









- 24V DC Type



※ 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)

4				Red
3			Red	Yellow
2		Red	Yellow	Green
1	Red	Yellow	Green	Blue
	1 Light(12V, 24V type only)	2 Lights	3 Lights	4 Lights

	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  
Black  
White

Outer contact





Fuse(5A)

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

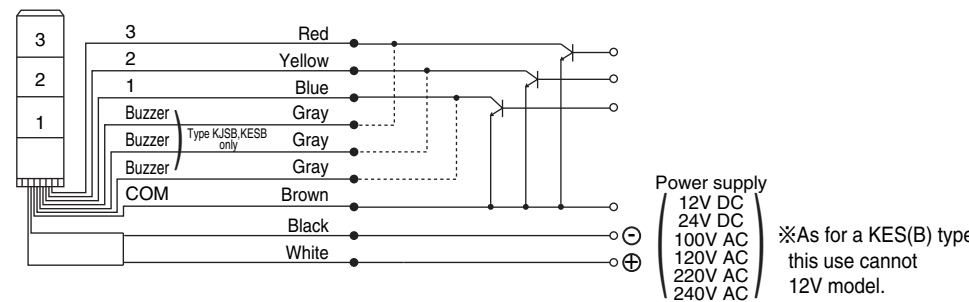
※As for a KES(B) type,  
this use cannot 12V model.

※ 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			Red
2		Yellow	Yellow
1	Blue	Blue	Blue
	1 Light	2 Lights	3 Lights

Wiring should be made as follows in case of using transisitor as other contact.

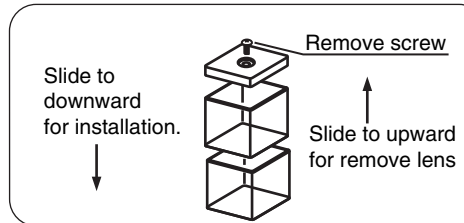


TYPE	NPN Transistor (2SC or 2SD)	NON-Contact relay (for DC load only)
Withstand voltage	$V_c > 45V$ or up	
Current capacity	$I_c > 300mA$ or up (Buzzer) $I_c > 50mA$ or up (Rotating light)	

- ※ 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.

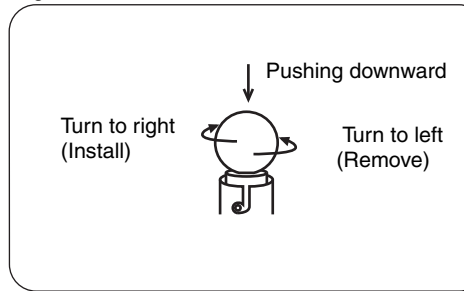


※ Be sure to reinstall the rubber paking to the body globe and head cover (one size for all applications), or the unit will no longer be splash proof.

- 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.

Problems	Where to check	What to do
The reflector would not rotate and the lamp stays turned off.	Is the power on?	Check the power wiring, plug connection and fuse.
		If a switch is installed, check to see that it is turned on.
The reflector rotates but the lamp is off	Is the light bulb burned out?	If it is, replace it with a new one.
The lamp is turned on but the reflector stays stopped.	Is the motor stopped? Is the motor lubricated?	The motor is broken or has reached the end of its life. Request a repair.
The buzzer dose not work.	Is the power polarity opposite on the DC 12 or 24 volt version?	Check and correct the polarity.

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