

MS66 Series

66mm LED Signal Light

Description

Compact, Dome-head, Long-life Red, Yellow, Green, Blue and White LED Signal Light.

- Steady + Flashing, Rotating
- Rotation speed is adjustable
- Built in high-powered Buzzer
- Various operating voltages
- 3 mounting options
- Lead wire connection



MS66M MS66G MS66P

User Manual

Thank you for purchasing Menics product.
For the proper and safe use of this product, please read and fully understand this manual before use.

Instructions for safety

- ※ 'Instruction for safety' is made to prevent accidents or risks in advance by using the product safely and correctly and be sure to observe it.
- ※ Instructions are divided into two categories as "Warning" and "Attention" and they are as follows.



Warning

If instruction is violated, there is the possibility of serious injury or death.



Attention

If instruction is violated, there is possibility of minor injury or damage on the product.

- ※ The meaning of the picture symbols used in the product and User manual are as follows.



is the sign meaning attention needs to be paid because there is the concern of risk occurrence under certain condition.



Warning

- In case it is used for the machines which make greater impact on life or property (e.g. nuclear power control, medical equipment, railroad car, aerospace, combustion equipment, recreation equipment, etc. or safety devices), make sure to attach safety device bifuriously before use.
There is the possibility of causing huge losses resulted from fire, personal injury and property damage.
- Do not disassemble and renovate the product. Please contact the head office or regional office for internal inspection or repair.
There is the risk of causing fire, electrical shock and product damage.
- While power is on, do not make wiring, maintenance or repair.
There is the danger of electrical shock.
- Rated voltage range must be kept for the power input voltage.
There is the danger of fire or electric shock.
- Before power on, make sure to check whether connection is made correctly.
There is the danger of fire, electrical shock or product damage.
- Do not use the product in the area such as outdoor and explosion hazard, flammable gas, watery area, near to flammable material.
There is the danger of fire, electric shock or injury.



Attention

- Make sure that there is nothing blocking the flow of air circulating.
There is the danger of deformation and product damage caused by heat.
- When the product is in operation, do not touch the product for a while.
There is the danger of burn.
- In case abnormality happens to the product, unplug the input power connection immediately. There is the danger of fire or product damage.
- Do not use in places with severe vibration.
There is the danger of product damage.
- When cleaning, do not use water, organic solvent and clean with towel with out moisture. There is the danger of electric shock or fire.

1. Product model classification

MS66 G - B 0 0 - R (V)

① ② ③ ④ ⑤

① Mounting type

M	ody direct mount (Plastic M20 Screw)
P	Aluminum Pole + Plastic mount base
G	Plastic mount base

② Light style

F	Steady + Flashing
B	Steady + Flashing + Buzzer
R	Rotating
T	Rotating + Buzzer

③ Power supply

00	12 ~ 24VAC/DC
FF	110 ~ 220VAC

④ Lens color

R	Red	B	Blue
Y	Yellow	C	White(Clear)
G	Green		

⑤ Light style (option)

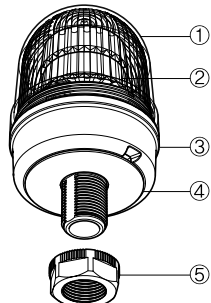
(V)	Consecutive flashing 240±5times per minute
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2. Part name / Dimensions / Drawing for mounting

- Install the product vertically on the strong surface with little vibration.
- If it's possible, attach it to the metal surface such as panel for improving the reliability of the product.

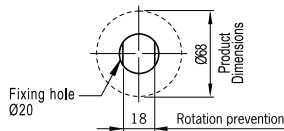
MS66M type

MS66M type Mounting: Indoor Only.
(Do not use it outdoors when the screw is exposed.)



No	Part Name	Material
1	Dome cap lens	PC resin
2	Reflector	Acryl resin
3	Body	ABS resin
4	Rubber sheet	NBR
5	Plastic Nut	ABS resin

<Drawing for mounting>

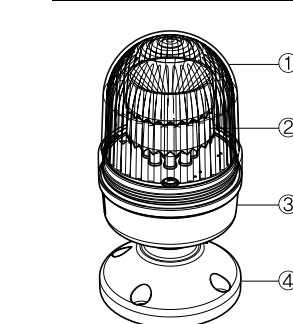


Accessory

Name: Wall mounting bracket
Model: MAM-DS11
Material: Steel, 1.8t

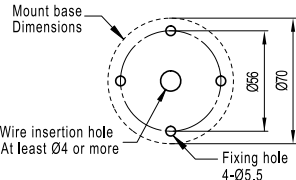


MS66G type

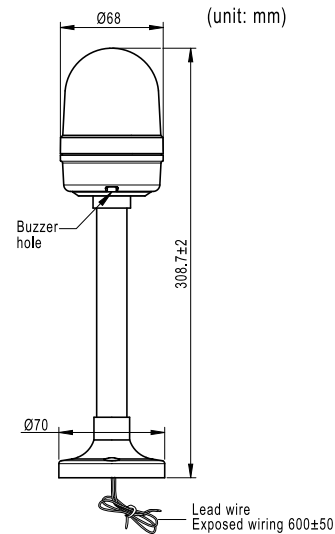
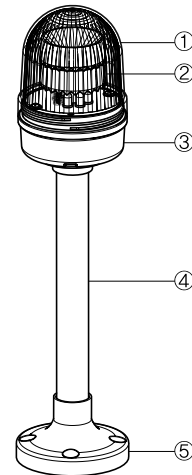


No	Part Name	Material
1	Dome cap lens	PC resin
2	Reflector	Acryl resin
3	Body	ABS resin
4	Mount base	Nylon resin

<Drawing for mounting>

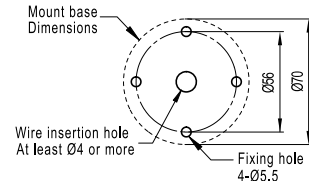


MS66P type



No	Part Name	Material
1	Dome cap lens	PC resin
2	Reflector	Acryl resin
3	Body	ABS resin
4	Pole	Aluminum
5	Mount base	Nylon resin

<Drawing for mounting>

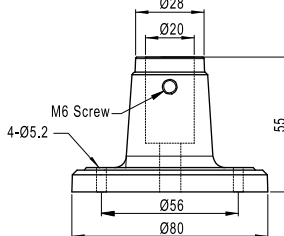


Accessory

Name: Aluminum Mount base
Model: MAM-DS32
Material: Aluminum



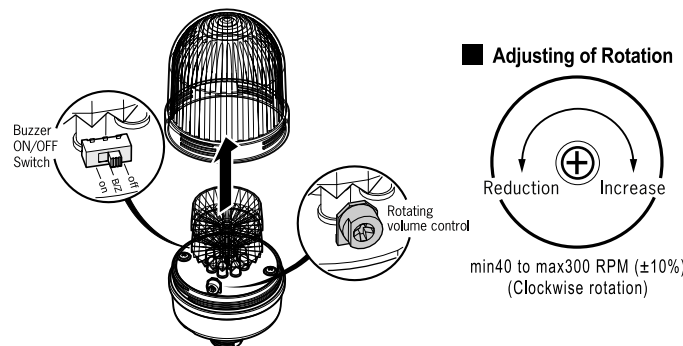
※ In case of P type, there is no change in total length although the Aluminum mount base is replaced.



3. Rotating Speed Change

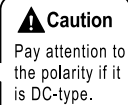
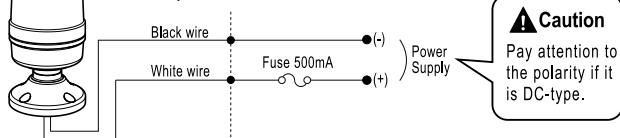


When adjusting operating area while using the display light, do not hold the LED area directly by hand after removing the lens. There is the danger of burn, electric shock or injury.



12~24VAC/DC 110~220VAC Rotating (Buzzer)

※ (Note)
Buzzer type: When the power is on, LED rotating or Buzzer will be operated immediately. (on/off switch built-in)



Pay attention to the polarity if it is DC-type.

4. Operation/Function

Function	Steady, Flashing, Buzzer / Rotatin, Buzzer		
Power supply	12~24VAC/DC, 110~220VAC (AC 50/60Hz)		
Dimension	Ø68mm		
Light source	LED		
Lens color	5 Colors - Red, Yellow, Green, Blue, White(Clear)		
Rotating speed	Volume Control: min60 to max300rpm (Clockwise rotation)		
Rotating type buzzer control	When the power is on, LED rotation or Buzzer will be operated immediately. (on/off switch built-in)		
Buzzer sound level (Sound is maximum)	80±5dB (Alternating Buzzer: pi-pi-pi)		
Mounting	MS66M / MS66P type - Upward only MS66G type - Forward, Reverse, Moving direction (Buzzer type: Only Indoor)		
Wiring method	Lead wire connection		
Ambient temperature	-20 ~ 40°C	Storage temperature	-20 ~ 70°C
Ambient humidity	45~85% RH		
Dielectric strength	1000VAC 50/60Hz for 1min		
Insulation resistance	100MΩ min. at 500VDC		
Vibration	0.75mm at 10~55Hz		
Wire size	UL1007/22AWG		
Approvals	CE, RoHS	Protection structure	IP65 (Buzzer type: IP52)
Weight (AC+Buzzer type)	MS66M type - App.168g	MS66G type - App.180g	MS66P type - App.233g

Note: Life of LED varies according to operating conditions and environment.

Current consumption (RMS value at AC type ±10%)

Color	Steady / Flashing type			
	12-24VAC		110-220VAC	
	General type	Buzzer type	General type	Buzzer type
Red				
Yellow				
Green	0.30A	0.32A	0.03A	0.04A
Blue				
White				
(Note) 12VDC Current Consumption: 0.08A (average) 24VDC Current Consumption: 0.06A (average)				

Color	Rotating type			
	12-24VAC		110-220VAC	
	General type	Buzzer type	General type	Buzzer type
Red				
Yellow				
Green	0.20A	0.22A		0.03A
Blue				
White				
(Note) 12VDC Current Consumption: 0.06A (average) 24VDC Current Consumption: 0.04A (average)				

(Note) 12VDC Current Consumption: 0.08A (average)
24VDC Current Consumption: 0.06A (average)

(Note) 12VDC Current Consumption: 0.06A (average)
24VDC Current Consumption: 0.04A (average)

Flashing per Minute

Power voltage	<General type>
12~24VAC/DC	80 ± 5times flashing per minute
110~220VAC	

Consecutive flashing type

Power voltage	
12~24VAC/DC	240 ± 5times flashing per minute
110~220VAC	

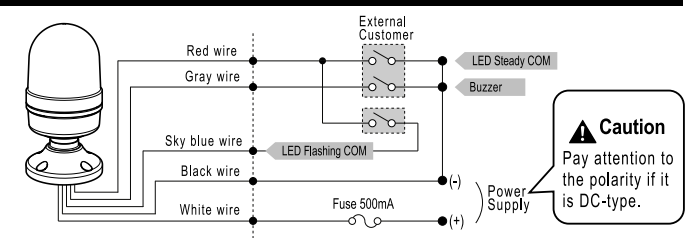
5. Wiring Diagram



Caution

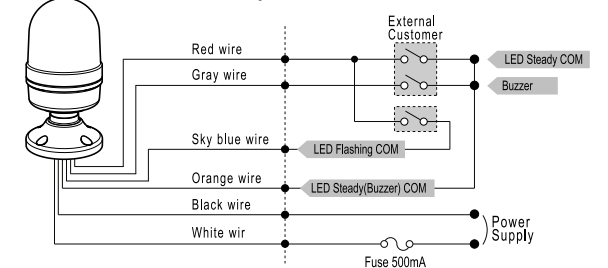
- Before connecting wires, be sure to check whether power is off or not. Damage of inner circuit or electric shock can be happened.
- Do not pull Lead wires too hard. It can damage the inner circuit.

12~24VAC/DC Steady + Flashing (Buzzer)



110~220VAC Steady + Flashing (Buzzer)

- Do not apply the voltage directly to the signal wire. It can damage the inner circuit.



※ Dimensions and performance of the product are subject to change without notice to improve the product.