MF115 Series

115mm High-bright LED Warning Lights

- Excellent visibility with flashing or rotating light
- Buzzer (intermittent sound) or horn speaker (9 tones)
- Omnidirectional sound output up to 100 dB
- Built-in volume control
- Easy to adjust rotating speed

LED RoHS IP35 110 dB

Ordering Information

MF115   B – 02 – R
          ①   ②   ③

① Style	B	Built-in Buzzer (External wiring contact)
	S	Built-in Horn Speaker (Internal switch contact)
	K	Built-in Horn Speaker (External wiring contact)

② Power Supply	01	12VDC
	02	24VDC

③ Colors	R	Red
	Y	Yellow
	G	Green
	B	Blue
	W	White

Built-in Sound

Model	MF115S	MF115K	MF115B
Classification	15W Horn Speaker		Buzzer
Volume	70 ~ 110±10dB		70~90±5dB
Built-in Sound	9 tones (3 melodies, 6 beeps)		Intermittent sound (beep beep -) Connection with external contact
	Tone selection with internal switch	Tone selection with external cable	

Current Consumption

Model		Red LED	Yellow LED	Green LED	Blue LED	White LED
MF115B	12V	0.70A	0.70A	0.70A	0.50A	0.70A
	24V	0.33A	0.35A	0.30A	0.30A	0.25A
MF115S MF115K	12V	0.90A	1.18A	0.90A	1.18A	0.90A
	24V	0.75A	0.75A	0.70A	0.70A	0.65A

Specifications

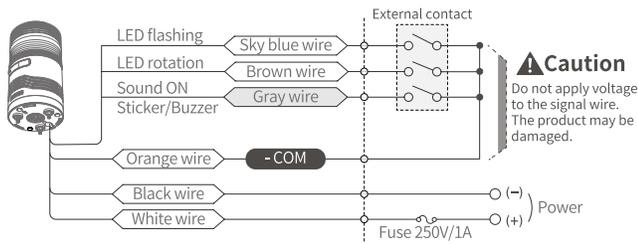|	
Operation/Function	LED Flashing, Rotation
Power Supply	12VDC, 24VDC
Light Source	LED (Lifespan: about 30,000~50,000h)
Flash Rate	220±5 times/ minute
Rotational Speed	60~200 rpm (built-in adjustable switch)
Lens Color	Red, Yellow, Green, Blue & Clear
Material	Lens:PC, Body: ABS
Mounting Method	Body Direct Fixing Type (M5 bolt), Vertical direction only (Indoor and outdoor)
Ambient Temperature	-15°C~40°C
Storage Temperature	-20°C ~ 70°C
Ambient Humidity	45~85% RH
Insulation Resistance	More than 1MΩ(500VDC Mega standard)
Vibration	30Hz(1minute cycle) 1 Hours double amplitude 0.5mm in X,Y,Z respective direction
Withstand Voltage	1 Minute at 500VAC 50/60Hz
Recommended Wire Size	UL1007, 22AWG, Exposure length - about 700±100mm
Wiring Method	Exposed wiring connection
Degree of Protection	IP35
Certification	RoHS
Product Weight	MF115B:App. 645g ,MF115S:App. 864g, MF115K:App. 885g,

LED Brightness

(±20 lm)

Red LED	Yellow LED	Green LED	Blue LED	White LED
113 lm	106 lm	86 lm	22 lm	200 lm

Connection Diagram

MF115B / MF115S

LED flashing — Sky blue wire
LED rotation — Brown wire
Sound ON Sticker/Buzzer — Gray wire
External contact

⚠ Caution
Do not apply voltage to the signal wire. The product may be damaged.

Orange wire — - COM
Black wire — (−)
White wire — (+) } Power
Fuse 250V/1A

MF115K

LED flashing — Sky blue wire
LED rotation — Brown wire
External contact

Orange wire — - COM

Melody-1 — White wire
Melody-2 — Red wire
Siren-1 — Blue wire
Siren-2 — Green wire
External contact

Black wire — + COM

⚠ Caution
Do not apply voltage to the signal wire. The product may be damaged.

Black wire — (−)
White wire — (+) } Power
Fuse 250V/1A
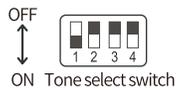
* Sound cable specification: UL2464, 22AWG, PVC, 5C
* Be careful not to short circuit the black signal wire(+COM) and the LED orange signal wire (-COM) during the wiring process.

MF115S Series Tone Select Switch

OFF ↕ ON   Tone select switch   1 2 3 4

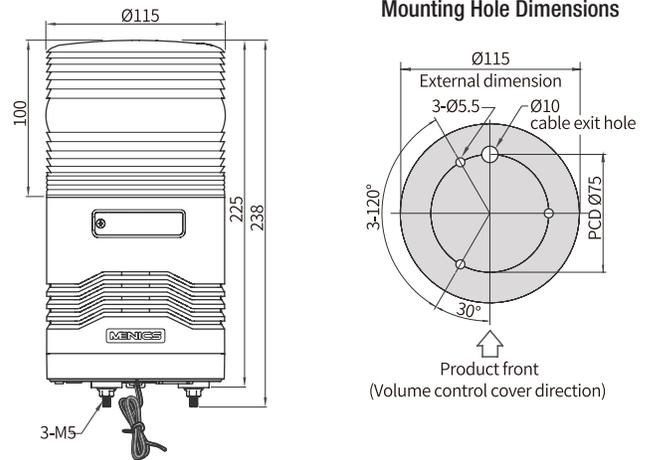| ON 1 2 3 4 | 0. Silence(OFF) | ON 1 2 3 4 | 4. Emergency vehicle siren | ON 1 2 3 4 | 8. Police siren |
ON 1 2 3 4	1. For elise	ON 1 2 3 4	5. Beeping for anomalies	ON 1 2 3 4	9. Fire engine siren
ON 1 2 3 4	2. Home sweet home	ON 1 2 3 4	6. Fire alarm		
ON 1 2 3 4	3. Cuckoo Waltz	ON 1 2 3 4	7. Ambulance siren		

* When selecting a tone, use a small flat screwdriver (tweezers) to operate the selection switch.
* Sound works only when the selector switch lever is pushed down.
* Due to the nature of LED, brightness and color vary depending on each LED and product type.
*LED lifespan varies depending on operating conditions and environment.
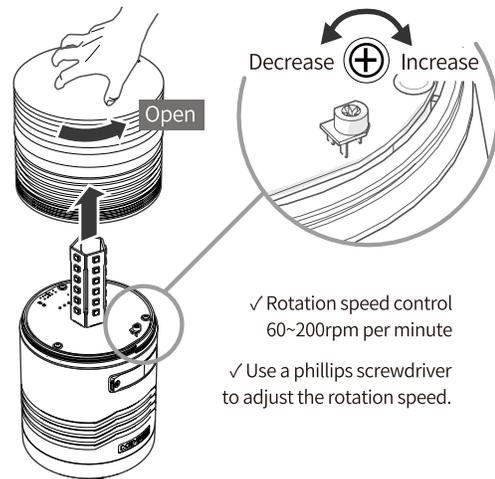
MF115K Type Tone Setting

	Sound List	White Wire	Red Wire	Blue Wire	Green Wire	Note
0	Silence(OFF)	1	1	1	1	-
1	For Elise	0	1	1	1	Black+White wire
2	Home sweet home	1	0	1	1	Black+Red wire
3	Fire alarm	1	1	0	1	Black+Blue wire
4	Police siren	1	1	1	0	Black+Green wire
5	Cuckoo waltz	0	0	1	1	Black+White+Red wire
6	Emergency vehicle siren	1	0	0	1	Black+Red+Blue wire
7	Beeping for anomalies	0	1	0	1	Black+White+Blue wire
8	Ambulance siren	0	1	1	0	Black+White+Green wire
9	Fire engine siren	0	0	0	1	Black+White+Red+Blue wire

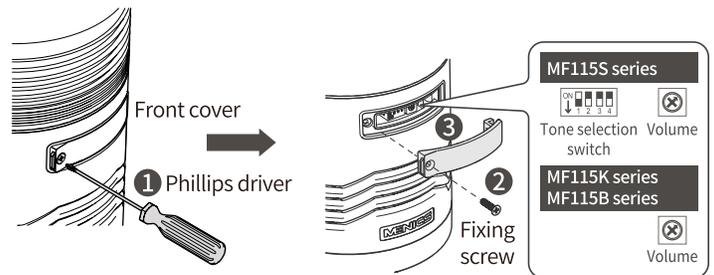* When connected to COM wire (Black wire): means 0 status.

Dimensions

Ø115
100
225
238

3-M5

Wiring: UL1007/22AWG
Exposed length: app. 700±100mm

Mounting Hole Dimensions

Ø115
External dimension
3-Ø5.5
Ø10 cable exit hole
3-120°
PCD Ø75
30°

Product front
(Volume control cover direction)

LED Rotation Speed Change

Open

Decrease ⊕ Increase

✓ Rotation speed control 60~200rpm per minute

✓ Use a phillips screwdriver to adjust the rotation speed.

Open the Front Cover for Tone Selection and Volume Control

Front cover
❶ Phillips driver
❸
❷ Fixing screw

MF115S series
ON 1 2 3 4
Tone selection switch   ⊗ Volume

MF115K series
MF115B series
⊗ Volume

Sound Volume Control

Volume
Decrease ⊗ Increase