## Compact and lightweight horn speaker electronic sounder High sound quality, High volume











Terminal block series

MSP-TP Panel mounting type

## MSP-TB External fixation type

- Easy wiring with crimp terminal application
   Front IP65 protective structure (MSP-TP type)
   Possible volume level control
- > Sound type: 3 Channel (melody type, siren-type)

Lead wiring series

MSP-LP Panel mounting type

**MSP-LB** External fixation type

- > Back side-lead wire type
- > IP65 protective structure available to install outdoor
- > Sound Built-in type: 3 Channel (Melody type, siren-type)

# **User manual**

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
- \* Instructions are divided into two categories as "Warning" and "Attention" and they are as follows.

**A** 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.

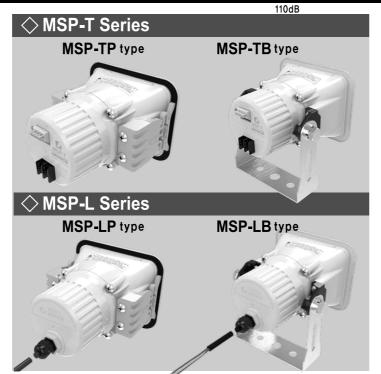
- \* The meaning of the picture symbols used in the product and User manual are as follows.
- ▲ is the sign meaning attention needs to be paid because there is the concern of risk occurrence under certain condition.

### **A** Warning

- 1. 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 bifariously before use.
- There is the possibility of causing huge losses resulted from fire, personal injury and property damage. 2. 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.
- 3. Do not connect wire, check, or repair when the power is applied. There is a risk of electric shock
- 4. Do not connect AC power to DC product. There is a risk of product damage.
- 5. Do not use close to the ears. There is a risk of hearing loss.

# **A** Attention

- 1. Do not use it outdoors while the rear of speakers are exposed.(MSP-T series) There is a risk of electric shock and product damage.
- 2. In case abnormality happens to the product, unplug the input power connection There is a risk of fire or product damage.
- 3. Do not use in places with severe vibration. There is the danger of product damage.
- 4. When cleaning, do not use water, organic solvent and clean with towel without moisture. There is the danger of electric shock or fire.



Model Configuration

Lead wiring type

# MSP-TPM-02(B)

MSP-T | Terminal block type

(2) Mounting type P | Panel type B | Bracket type

(3) Sound type M | Melody 3 channel S | Siren 3 channel

(4) Power supply

(1) Series

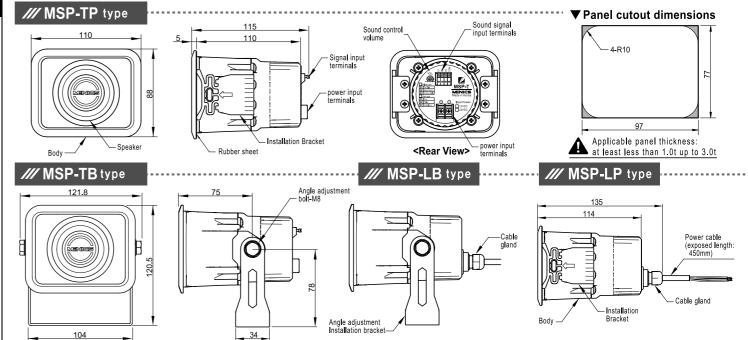
_	ン・	onor capping
	01	12VDC
	02	24VDC
	FF	100~240VAC

(5) Body colors No display | Ivory (B) Black Red (P) Nickel plated

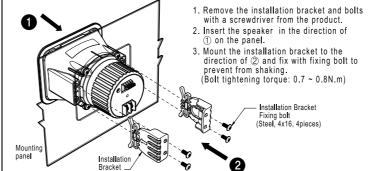
#### Rating / Performance

Series	ı	MSP-T	MSP-L	
Power supply		12VDC , 24VDC ,	100~220VAC (50/60Hz)	
Allowable voltage range	12	VDC±5% , 24VDC±	10% , 100~240VAC±10%	
Current consumption (±10%)	12VDC: Melody type: 0.22A Siren type: 0.8A 24VDC: Melody type: 0.12A Siren type: 0.4A 100~240AC: Melody type: 0.13A Siren type: 0.13A			
Maximum volume(at 1M)	Melody type: 100±5dB , Siren type: 105±5dB , High volume siren type: 110±5dB			
Number of channels	Sound Types: 3 channels			
Sound type	Melody type: For Elise, Sweet Home, Cuckoo Waltz Siren type: Fire trucks, police cars, ambulance			
Volume control	Yes (internal volume control)		none	
Volume range	DC type AC type	70~100±5dB (1m) 50~100±5dB (1m)	none	
Color	Body - Ivory/Black/Red/Nickel plated ,Horn speaker - black			
Material	Body - ABS ,Rubbers - NBR			
Insulation resistance	Over 100M2 (500VDC mega between terminals and case)			
Withstand voltage	500VAC 50 / 60Hz 1 min (between terminals and case before)			
Vibration resistance	0.75mm at 10~55Hz (cycle: 1 minute)			
Temperature	Ambient temperature: -20 ~ 50°C Storage ambient temperature: -20 ~ 65°C			
Ambient humidity	45~85% RH			
Protection structure	IP65 (Front panel)		IP65	
Wire size	-		2464UL/22AWG , 6P , 450mm	
Power input terminal screw tighte	ning torques	0.4 ~ 0.6N.m		
Panel tightening screw faster	ing torque	0.7 ~ 0.8N.m	M8 Bolt: 5 ~ 6N.m	
Approval	RoHS			
Weight	App. 436g	(MSP-TP type)	App. 588g (MSP-LB type)	

#### External dimension and part name (Unit:mm)



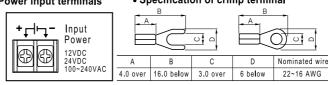
#### MSP-TP, MSP-LP type How to install panel



#### MSP-T series Connection diagram

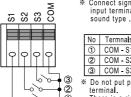
Power input terminals

• Specification of crimp terminal



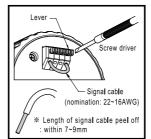
It is recommended to lead wire short to reduce noise and use shield wire.

#### . Sound signal input terminals



Connect signal wire to COM terminal of sound color input terminal and to the terminal of the selected

Sound type Termnals Melody type Siren type COM - S1 for Elise Fire truck ② COM - S2 Sweet home Police car 3 COM - S3 Cuckoo Waltz Ambulance \* Do not put power to the sound color signal input terminal. There is a risk of damage to the circuit if powered.



### **▼** How to connect signal cable

1. Press the lever of the terminal with a small screw driver 2. Insert peeled off signal cable into terminal hole. 3. Release pressing lever.

Volume control

VOL

※ Keep the length of peeled off signal cable. If the length of peeled off signal cable is too short, there is a risk of malfunction due to connection error and if too long, it may cause electric shock or short circuit. \* Do not pull out signal cable to remove. There is a risk of

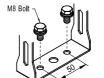
damage to the terminal.

<u>Do not fail to remove by handling the lever of the terminal.</u>

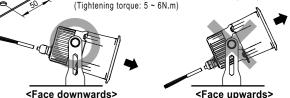
### MSP-TB, MSP-LB type How to install



- Install in the site without vibration or shock on a flat surface. Avoid installing in the site with strong alkali or strong acid.
- Do not use in the place near the equipment that generate strong magnetic field or electric noise..
- Do not install at the height of a person.
- There is a risk of hearing loss.

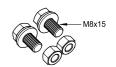


- 1. Fixed using M8 bolts in the hole of the angle adjusting holder. Do not fail to apply vibration absorbing rubber when installing in the place with strong vibration.
- 2. Please install downwards when installing outdoors to prevent rainwater from entering in the device.
- 3. Set the speaker angle and then fasten the angle adjustment bolt tight.



#### Accessories

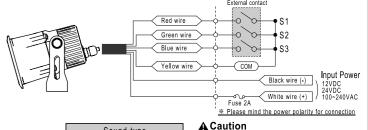
- Each two bolts and nuts to fix M8 are packaged.



#### MSP-L series Wiring Diagram



- Connect the power same as indicated in the product. Otherwise, over current may cause a failure of the product
- Do not apply power to the sound color signal line and COM line. Short circuit and over current may cause a failure of the product.



#### Sound type Siren type No | Wire color | Melody type Red for Elise Fire truck Green Sweet home Police car

 Connect external fuse between the product and the power supply to protect internal circuitry.

Siren type: 2A \_\_\_\_\_ Melody type: 0.5A

Please isolate the signal line that is not in use. There is a risk of electric shock.

\* External dimension and the performance is subject to change without prior notice to improve the product.

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