MSP Series
Panel/Wall Mount Buzzer

RoHS · 110 dB · IP65

Ordering Information

MSP - **T** **P** **M** - **02** **(B)**
       ① ② ③   ④   ⑤

① Connection	T	Terminal Type
	L	Lead Wire Type

② Mounting	P	Panel Mounting
	B	External Fixation Type

③ Sound Type	M	Melody 3 channel
	S	Siren 3 channel

④ Rated Voltage	01	12VDC
	02	24VDC
	FF	100 ~ 240VAC

⑤ Body Colors	no mark	Ivory
	(B)	Black
	(R)	Red

Specifications

Model	MSP-T	MSP-L
Power Supply	12 VDC, 24VDC, 100~240 VAC	
Current Consumption	12VDC Melody type: 0.22A Siren type: 0.8A 24VDC Melody type: 0.12A Siren type: 0.4A 100~240VAC Melody type: 0.13A Siren type: 0.13A	
Maximum Volume	Melody type: 100±5dB(1M), Siren type: 110±5dB(1M)	
Number of Channels	Sound types: 3 channels	
Sound Type	Melody type: For Elise, Sweet Home, Cuckoo Waltz Siren type: Fire Truck, Police Car, Ambulance	
Volume Control	Built-in volume control	None
Color	Body - Ivory/Black/Red, Horn speaker - Black	
Material	Body - ABS, Horn - NBR	
Insulation resistance	Over 100MΩ (500VDC mega btwn terminal and case)	
Withstand voltage	500VAC 50/60Hz 1 min.	
Temperature	Working temp.: - 20 ~ 50°C Storage temp.: - 20 ~ 65°C	
Operating humidity	45 ~ 85% RH	
Degree of protection	IP65 (Front panel)	
Wire Size	-	2464UL/22AWG, 6P, 450mm
Certificate	RoHS	
Weight	436g (MSP-TP type)	588g (MSP-LB type)

How to install

MSP-TP, MSP-LP Type

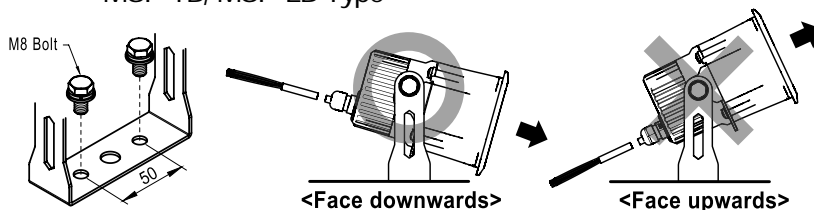Installation Bracket Fixing bolt (Steel, 4x16, 4pieces)

Mounting panel

Installation Bracket (POM)
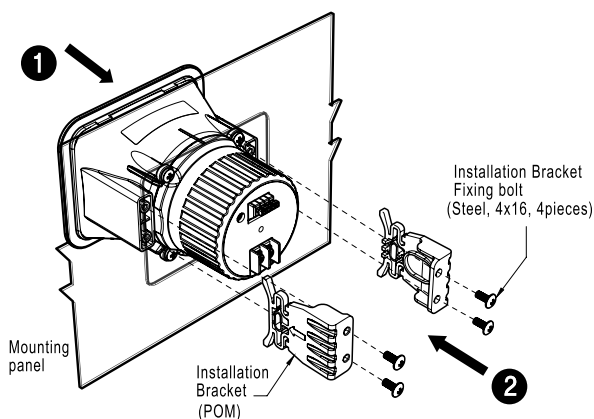
1. Remove the installation bracket and bolts with a screwdriver from the product.
2. Insert the speaker in the direction of ① on the panel.
3. Mount the installation bracket to the direction of ② and fix with fixing bolt to prevent from shaking.
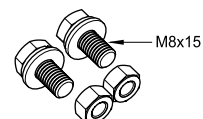
MSP-TB, MSP-LB Type

M8 Bolt

50

<Face downwards>   <Face upwards>

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. (Tightening torque: 5 ~ 6N.m)
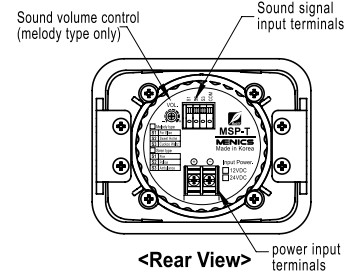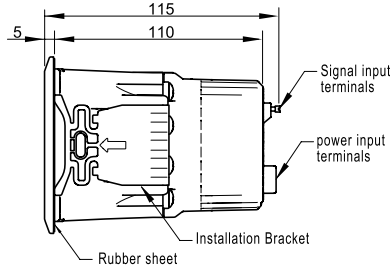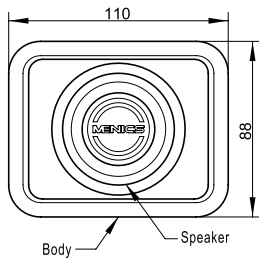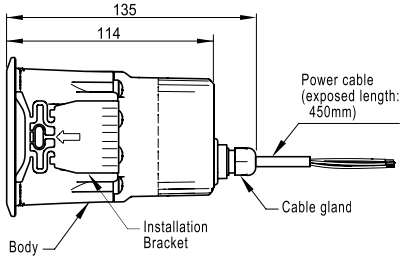
◉ **Accessories**
- Each two bolts and nuts to fix M8 are packaged.

M8x15

Dimensions

MSP-TP Type

110
88
Body — Speaker

115
110
5
Signal input terminals
power input terminals
Installation Bracket
Rubber sheet

Sound volume control (melody type only)
Sound signal input terminals
MSP-T
MENICS
Made in Korea
Input Power
12VDC
24VDC
<Rear View>
power input terminals

MSP-LP Type

135
114
Power cable (exposed length: 450mm)
Cable gland
Installation Bracket
Body

MSP-LB Type

Cable gland
Angle adjustment Installation bracket
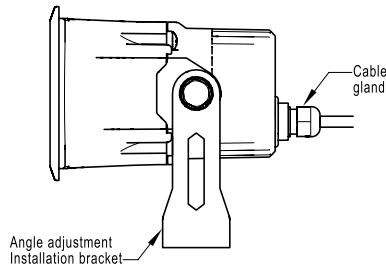
▼ Panel cutout dimensions

4-R10
77
97

⚠ Applicable panel thickness: at least less than 1.0t up to 3.0t

MSP-TB Type

121.8
120.5
104

75
Angle adjustment bolt-M8
78
34
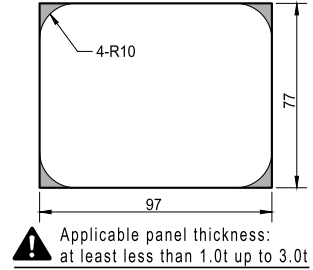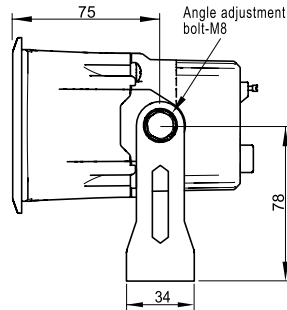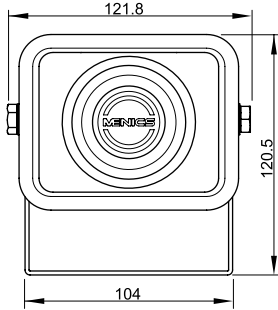
Wiring Diagram

◉ MSP-T series Connection diagram

• Power input terminals

+ — DC Power 12VDC 24VDC
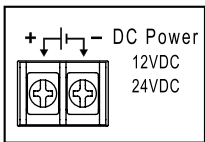
※ It is recommended to lead wire short to reduce noise and use shield wire.

• Specification of crimp terminal

B
A
C
D

B
A
C
D

A	B	C	D	Nominated wire
4.0 over	16.0 below	3.0 over	6 below	22~16 AWG

• Sound signal input terminals

S1 S2 S3 COM

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

Sound type		
No	Terminals	Melody type	Siren type
①	COM - S1	for Elise	Fire truck
②	COM - S2	Sweet home	Police car
③	COM - S3	Cuckoo Waltz	Ambulance

③ ② ①

※ Do not put power to the sound color signal input terminal.
There is a risk of damage to the circuit if powered.

• Volume control

VOL.
Reduce − + Increase

Lever

Screw driver
Signal cable (nomination: 22~16AWG)

※ Length of signal cable peel off : within 7~9mm

▼ 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.

⚠ Caution

※ 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.
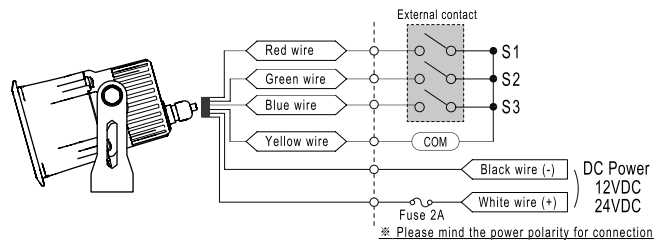Do not fail to remove by handling the lever of the terminal.

◉ MSP-L series Wiring Diagram

⚠ **Caution**
- 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.
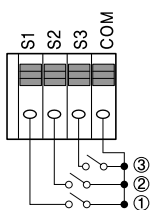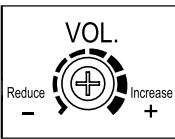Short circuit and over current may cause a failure of the product.

External contact
Red wire → S1
Green wire → S2
Blue wire → S3
Yellow wire → COM
Black wire (-) — DC Power 12VDC 24VDC
White wire (+)
Fuse 2A

※ Please mind the power polarity for connection

Sound type		
No	Wire color	Melody type	Siren type
S1	Red	for Elise	Fire truck
S2	Green	Sweet home	Police car
S3	Blue	Cuckoo Waltz	Ambulance

⚠**Caution**

※ 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.