B95100552_04 Installation Operation Main

Notice to Customer

Thank you very much for purchasing our PATLITE product.

Request the installation and wiring be performed by a professional contractor if construction work is involved.

Prior to installation, read this manual thoroughly before using this product to ensure correct use.

If there are any questions concerning this product, refer to the contact information at the end of this document and contact your nearest PATLITE

Notice to Contractor • Read this manual carefully prior to installation. • Be sure to return this manual to the customer

1 Read this First (Safety Precautions)

Marning Failure to observe the following may result in death or serious injury.

To prevent from short-circuits, electric shock or damage, observe the following:

-Be sure the power is disconnected before replacement or repair, including the replacement of the fuse.

-Use this product in a properly maintained condition. (Replace or repair if the LED unit, etc. are damaged.)

Request the installation and wiring be performed by a professional contractor if construction work is involved. Failure to comply may result in fire, electric shock or falling from high places.

/! Caution Failure to comply with the following points may result in injury, physical loss or damage.

Avoid long exposure to the Buzzer sound from a close distance. Failure to observe this may lead from irritation to permanent damage to the ears. (FB With Flashing/Buzzer)
In order to maintain protection of this product against dust and waterproofing performance, be sure to use the head cover and LED unit in the condition that it was originally attached.
When waterproofing is necessary, do not use it in a state where sealing the mounting bracket is done insufficiently. Water may penetrate and cause a breakdown.
Do not apply voltage to the Flashing Common line (FB). Apply voltage to the power source line (M2) only. Product failure will occur.
When removing covers or packing from the equipment, which is attached to this product, be careful not to snag the product. Failure to comply may result in damage to the product.

To ensure proper safety while using the signal tower, observe the following:
 Perform periodic pre-maintenance. As a precaution against problems occurring, use this product together with other equipment.

Be sure to discharge any static electricity from the body before handling static sensitive parts of this product.

To prevent damage from static electricity, touch hands or other body parts to metals or an earth ground to discharge the body from static charge.

charge.)

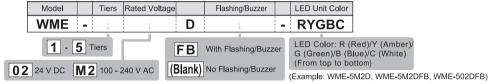
• Use a soft cloth moistened with water when the LED Unit or body must be cleaned up. (Do not use thinner, benzine, gasoline or oil.)

• To ensure safety when this product is installed onto equipment, observe the following:

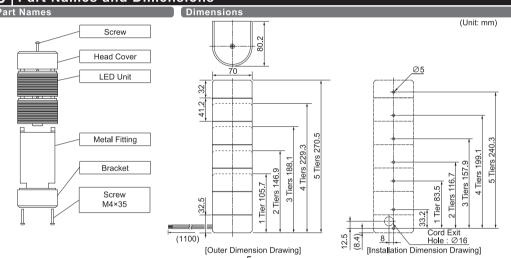
-Do not remove parts beyond those designed to be removed from this product.

-Do not modify or disassemble this product.

2 Model Number Configuration



3 Part Names and Dimensions



Wiring Example

The following is a basic wiring example. If there are any special applications that require asking questions concerning this product, feel free to contact your PATLITE Sales Representative. Accidental wiring will result in product failure.

<Note> When lighting and flashing are used together, it is necessary to prepare

an external contact for each lighting or flashing.

Regardless of the number of tiers, the signal lines from the main body are red, orange, green, blue and white.

■ Wire Type & Wire Gauge

02 Power Supply Wire, Signal Wire and Common Wire

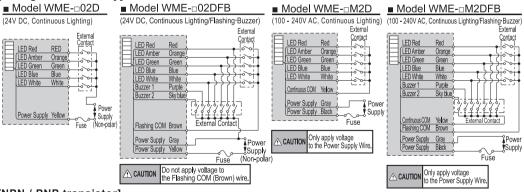
M2 Power Supply Wire (Gray , Black)···UL1015 / AWG18

Excluding M2 Power Supply Wire (Gray , Black) ··UL1061 / AWG24

buzzei (FB Type)						
	Buzzer	Wire color				
	Buzzer 1 : Rapid intermittent beep 1	Purple				
	Buzzer 2 · Rapid intermittent been 2	Sky blue				

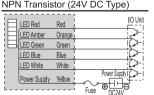
 $\ensuremath{\,\%\,}$ Buzzer 1 is priority when connected simultaneously to common with buzzer 2.

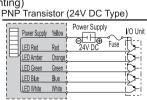
[Voltage contact relay]

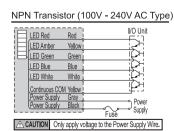


[NPN / PNP transistor]

■ Model WME-□□□D (Continuous Lighting)
NPN Transistor (24V DC Type)
PNP Transistor (24V DC Type)

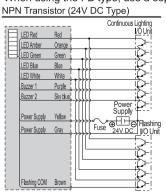




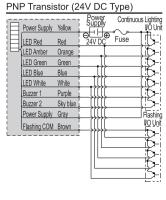


■ Model WME-□□□DFB (Continuous Lighting/Flashing Buzzer)

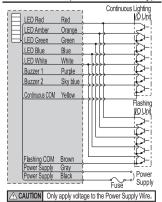
*When using the FB type, use a separate I/O unit for flashing.



CAUTION Do not apply voltage to the Flashing COM (Brown) win



NPN Transistor (100V - 240V AC Type)



4 Installation

Notice

• The following requirements are necessary for proper installation: -Install the signal tower where excessive vibration is not present.

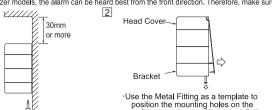
• This product can only be used indoors. (Do not use it outdoors.)

• When the unit must be watertight, apply silicone rubber or an equivalent sealant between the wall and Metal Fitting at the wire exit hole.

• When the installation location is unavoidably irregular and waterproof performance is required, use a sealant between the product and the installation surface

How to Install

Drill mounting holes in the wall for L-bracket installation, or in the panel for direct mount installation.
Secure the Metal Fitting with hex bolts and hex nuts (not supplied).
With buzzer models, the alarm can be heard best from the front direction. Therefore, make sure the Signal Tower is facing the correct direction before installation. 1 3





Use the Metal Fitting as a template to position the mounting holes on the wall in accordance with the installation dimensions diagram.
 Remove the Metal Fitting from the unit by removing the 2 screws from the bottom of the bracket.

Cord Exit Hole Silicone rubber ·Mount the Metal Fitting on the wall. Make sure the Metal Fitting is correctly oriented, with the ^ UP mark on the bracket pointing in the direction of the head cover. Use two screws with a nominal diameter of 4 mm to install the Metal Eitigan.

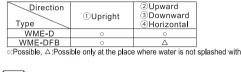
the Metal Fitting.

recessed wall,leave enough space for screwdriver access at bracket side as shown in the diagram above 5 \Rightarrow

·Hook the rear of the head cover to the ·Install and tighten the two screws 100k the rear of the nead cover to the 2 pins of the upper bracket, push the lead wires through the thru hole, taking care not to pinch the wires. Then push the unit snug against the bracket.

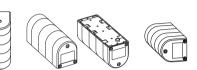
·When the unit is installed on a

(M4 x 35) removed in step [1] at the bottom of the bracket. (Recommended tightening torque : 0.6 N·m) Pressing lightly in the direction indicated by the arrow will make it easier to insert the screws.





Horizontal Upward Downward



5 Wiring

Be sure the power is disconnected before wiring and changing fuses. Possible cause of short-circuiting may occur.
 Ensure the proper working voltage is used and that direct current or alternating current is properly applied.
 Possible cause of combustion may occur.

▶ Do not apply voltage to the Flashing Common line ([02]). Apply voltage to the power source line ([M2]) only.Product failure Caution |

Upright

Caution

Will occur.

Do not control the flashing display by switching the power source ON and OFF (MZ). Product failure will occur.

It is not necessary to connect to an external lead for tiers not used. When an extra lead is not connected, it should be individually insulated with electrical tape or something similar. Failure to comply will result in damage due to short circuiting.

Do not pull the lead wire or push it inside the body. Product failure may occur.

Notice

• When using multiple LED units of the same color, make the contact capacity equal to the number of same color LED units multiplied by the contact capacity for 1 tier. (This is because LED units of the same color light up for one signal line.)

• To protect the power supply and other internal circuitry, be sure to install an external fuse.
• If wiring is extended beyond its factory length, a relevance in the length of the wire and wire gauge will cause a voltage drop.
• Use external contacts as independent contacts when using with the flashing type.

External Contact Capacity

External Contact (Transistor) Capac				ls:	Current C	Capacity, Vs	: Withsta	and Voltage,	IL: Leak	age Current
[Voltage Specification		02 24 V DC			M2 100 - 240 V AC				
	LED Unit	Signal Wire Current (Max.) / Voltage	Typ.	29 mA	Max.	35 mA	Typ.	29 mA	Max.	35 mA
	(1 Tier)	Recommended Contact Capacity	Is ≧ 100 mA Vs ≧ 35 V DC			Is ≥ 100 mA Vs ≥ 35 V DC				
ı	Buzzer	Signal Wire Current (Max.) / Voltage	Typ.	40 mA	Max.	50 mA	Typ.	5 mA	Max.	6 mA
		Recommended Contact Capacity	Is ≧ 300 mA Vs ≧ 35 V DC		Is ≧ 10 mA Vs ≧ 35 V DC					
- [Power	Current Consumption (Max.) (※1)	Typ.	200 mA	Max.	280 mA	Typ.	110 mA	Max.	130 mA
ı	Supply	Recommended Contact Capacity	Is ≧ 500 mA			Inrush Current or more contacts				
ı	Inrush	Signal Wire	LED None Buzzer 100mA 3ms or less (%2)			2) None				
ı	Current	Power Supply Wire	None			100 V AC : 11A, 240V AC: 25A 2ms or less				
- [Leakage Current			lı ≤0.1 mA						

 It is the value at rated voltage The signal wire voltage is 24 V DC. %1…LED Unit current flow when 5 tiers are connected.

Recommended Fuse Fuse Ampere Ratings | 250 V / 1 A (5x20mm Fast-Acting Glass Body Cartridge Fuse)

6 Changing LED Unit positions

Warning • Make sure the power is off before wiring, repairing, or replacing parts to avoid a short-circuit, electric shock, or burn.

Do not remove the LED unit forcibly as it may damage the unit.

When the center screw is loosened or removed, the LED units become unstable and may separate. Therefore, handle carefully to avoid damage.

Do not touch the connector area or the inside of the body and LED unit. Failure to comply may damage the unit.

Screwing the head cover too tight may damage it. The recommended torque is about 0.6N·m.

Changing LED Unit positions

Remove the product.
Turn off the power before changing LED Units.
Unscrew the head cover and remove the LED units.
The LED units are connected to each other by connectors.
Therefore, be sure to connect the LED Unit connectors from top to bottom.

7 | Specifications

Tiers	Model	UL Registration Model	Rated Voltage	Power Consumption	Mass	Flash Cycle (fpm) and Sound Level	
	WME-102D	WME02D	24V DC	0.9W	0.28kg		
1 Tier	WME-102DFB	WME02DFB	244 00	2.1W	U.ZONY		
1 1161	WME-1M2D	WMEM2D	100 - 240V AC	1.6W	0.35kg		
	WME-1M2DFB	WMEM2DFB	(50/60Hz)	2.8W			
	WME-202D	WME02D	24V DC	1.8W	0.37kg		
2 Tiers	WME-202DFB	WME02DFB		3.0W			
2 Hers	WME-2M2D	WMEM2D	100 - 240V AC (50/60Hz)	2.9W	0.44kg		
	WME-2M2DFB	WMEM2DFB		4.1W		ED Tuno	
	WME-302D	WME02D	0417.00	2.7W	0.46kg	FB Type 60 Flashes per minute & Sound level 93dB (Buzzer opening direction at 1m)	
2 Tiors	WME-302DFB	WME02DFB	24V DC	3.9W			
3 Tiers	WME-3M2D	WMEM2D	100 - 240V AC	4.2W	0.53kg		
	WME-3M2DFB	WMEM2DFB	(50/60Hz)	5.4W			
	WME-402D	WME02D	24V DC	3.6W	0.55kg		
4 Tions	WME-402DFB	WME02DFB	24V DC	4.8W			
4 Tiers	WME-4M2D	WMEM2D	100 - 240V AC	5.5W	0.62kg		
	WME-4M2DFB	WMEM2DFB	(50/60Hz)	6.7W			
	WME-502D	WME02D	24V DC	4.5W	0.64kg		
E Tions	WME-502DFB	WME02DFB	24V DC	5.7W			
5 Tiers	WME-5M2D	WMEM2D	100 - 240V AC	6.8W	0.711.~	-	
	WME-5M2DFB	WMEM2DFB	(50/60Hz)	8.0W	0.71kg		

EMC Directive (EN 61000-6-4, EN 61000-6-2)
 FCC Part 15 Subpart B Class A
 Low Voltage Directive (IEC/EN60947-5-1,EN62471)

⟨Conformity Standards⟩
• UL 508, CSA-C22.2 No. 14
• RoHS Directive (EN 50581)
• KC (KN 61000-6-4, KN 61000-6-2)

(Note) Dimensions and specifications may change without notice due to

Conformity requirements for the UL Standard:
 Use a fuse holder with UL standard certification. (M2)
 This product is designed for use on a flat surface for a Type 1 Enclosure.
 "Use class 2 circuit for the power supply source", located on either the unit, its carton, or accompanying instruction sheet. Models with rated 24 V only.
 For use in Pollution Degree 2 Environment.
 Maximum surrounding air temperature rating of 55 ℃ (02) (M2 50 ℃)
 Conformity requirements for the CE Marking:
 This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.
 These restrictions are limited to cases where this equipment is operated in a business district, and it is designed to take the relevant protective measures against electromagnetic noise hindrance.

designed to take the relevant protective measures against electromagnetic noise hindrance. This product must not be used in residential areas.

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7 —

CAUTION Do not apply voltage to the Flashing COM (Brown) wire.

continual product improvement.

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