

LED Signal Light

Model XPE / XME

INSTRUCTION MANUAL

Installation

Operation

Maintenance

[Maintenance Version]

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.
 - After reviewing this manual, if there are any questions regarding this product, please contact the nearest PATLITE office listed on the back cover of this manual.

Notice to Contractor

- Read this manual carefully prior to installation.
- Be sure to return this manual to the customer.

1 Safety Precautions

Safety Precautions

WARNING

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

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

- Be sure the power is disconnected before replacement (Globe exchange, etc.) or repair.
- Please use this product in a properly maintained condition. (If parts such as the body or globe are damaged, they should be repaired.)

To ensure proper safety while using the signal tower, observe the following:

- Perform periodic pre-maintenance. (→ "Inspection")
- As a precaution against problems occurring, use this product together with other equipment.

Properly secure this product to prevent from falling, particularly from high places. Failure to comply may result in death, serious injury, or product damage.

Do not apply excessive torque or strong shock to this product. Failure to comply will result in product damage.

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 may occur.

Do not, by any means, disassemble or modify this product. (This product contains high voltage, which is very dangerous, so only remove replacement parts.)

- ※ Only remove replacement parts.

Please protect the following, in cases where this product is attached to equipment etc. To ensure safety when this product is installed onto equipment, observe the following.

- Do not use this product as leverage when climbing up onto the equipment. Failure to comply will result in falling from a high place, or damage to the product.
- When performing tasks such as opening covers on the equipment, be careful not to snag anything on this product. Failure to comply will result in product damage.

Do not look directly into the light source during operation of this product. The excessive brightness may impair vision.

CAUTION

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

Use only the specified replacement parts listed in this manual.

Install an external fuse between the power supply and product to protect the internal circuitry. (→ "Installation and Wiring")

Main Unit

This product is useful for warning indications by flashing, and can be used on equipment, in factories and other applications.

Instruction Manual Objective

- The images in this manual may vary in comparison to the actual product and are only for the purpose of illustration.
- Store this manual in a location for future reference.

2 Model Number Configuration

Model No.	Model	Rated Voltage	Color
	XPE- XME-	↓	↓
12	24	100 / 200 / 230 V AC	R Y G B

- ※ 1 The flash reduction function is included for the 12 and 24 models.
- ※ 2 Due to LED and globe color compatibility, changing the globe cannot be done without the LED unit being changed as well.
- ※ 3 XME model does not offer a green [G].

Model Number Example
XPE-12-R
• Rated Voltage ... 12 V DC • Color Red
XME-M2-B
• Rated Voltage ... 100 / 200 / 230 V AC • Color Blue

3 Part Names and Outer Appearance

Model XPE

Model XME

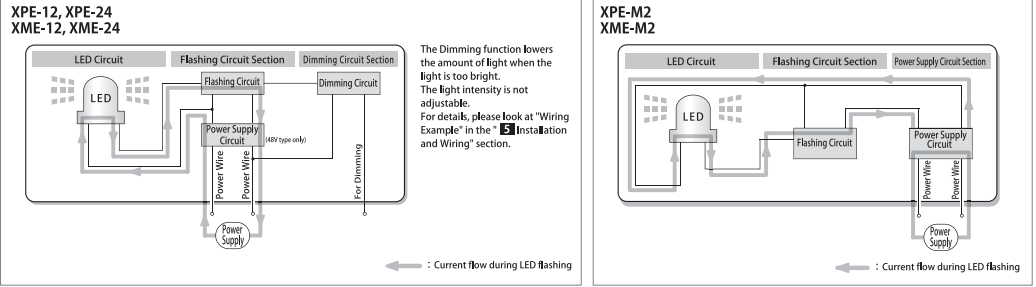
Power Cord Specification

12	24	Wire Length : 340	Cord Diameter : Approx φ8
		Red	Black
		White	
		Vinyl Tube	
M2		Wire Length : 340	Cord Diameter : Approx φ9
		Green / Yellow	White
		Black	
		Cabtyre Cable	

<Note> "Power Cord Specification" applies to both the XPE and XME.

4 Block Diagram

The following illustrates the internal block diagram for the signal tower. Use it as reference when wiring. (The diagram is only an example.)



5 Installation and Wiring

Be sure the power is disconnected before replacement or repair.

Ensure the proper working voltage is used and that direct current or alternating current is properly applied.

Be sure the earth wire has been grounded. Failure to comply may result in electric shock or fire. (M2)

The following requirements are necessary for proper installation.

- Install where excessive vibration is not present.
- Install on a strong surface.
- Install on a level surface.

Use a soft cloth, etc., dampened with water to wipe the main signal tower unit. (Do not use cleaners containing chemicals such as thinner, alcohol, gasoline or oil.)

Install an external fuse between the power supply and product to protect the internal circuitry. Refer to "Wiring Example".

Use an external fuse with the recommended rating for the product being used. (A 2A fuse is built-inside the product.)

Do not pull the power cord or push it inside the body.

Install in an upright position when placed in a wet environment. Failure to comply will result in waterproofing performance. (Protection Rating: IP23)

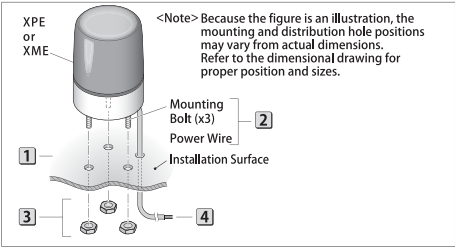
Do not remove the LED unit for any reason. Failure to comply may result in electric shock.

Do not operate this product with the globe removed. Failure to comply will result in waterproofing performance.

How to Install

The following is the procedure for installing this product.

- Before mounting the product, drill holes into the mounting surface in accordance to the dimensional drawing.
- Insert the Power Cord into the wire hole before inserting the body into the mounting hole.
- Fasten with the (M8) nuts included and tighten. (Recommended Bolt Torque : 3 N · m)
- Properly wire to the power supply. Refer to "Wiring Example".



Installation Dimensions

Model XPE

Model XME

Wiring Example

The wiring example is indicated for every model. If there are any special applications that require asking questions concerning this product, feel free to contact your PATLITE Sales Representative.

Product Specification 12V DC, 24V DC

Model	XPE-12, XPE-24 XME-12, XME-24
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Product Specification 100 / 200 / 230 V AC

Model	XPE-M2 XME-M2
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6 Inspection

For safety measures, perform the following inspection.

Inspection Checklist	Inspection Repair
Is the LED flashing?	Refer to the "Troubleshooting" section if it does not flash.
From observation of the appearance, is there any damage?	If any damage has been found, immediately replace the whole unit. (See "Replacement Parts".)
Is the mounting nut loose?	If the nut is loose, tighten it with the recommended torque. (Refer to "Installation and Wiring".)

7 Troubleshooting

If a problem occurs, check the following table to remedy the problem before calling for service.

No.	Problem	Where to Check	Inspection Repair
1	The LED does not flash.	Is the electric wiring connected correctly? Is the power properly supplying the correct voltage? Has the external fuse blown-out?	Refer to "Installation and Wiring" to verify wiring is correct. Be sure to use this product at its rated voltage. Verify the external fuse has not been burned-out.
2	Even when connected to the Flash Reduction circuit, luminous intensity does not change. (12, 12VDC Types, 24, 24VDC Types)	Is the electric wiring connected correctly?	Refer to "Installation and Wiring" to verify wiring is correct.

Even if the problem is not corrected after the above remedies have been performed, use the table below to make detailed notes of the product, its problem, and then contact either the place of purchase or your nearest PATLITE Sales Representative.

- Purchased Product Distributor
- A PATLITE office (Refer to the back cover of this manual.)

Product Details			
Product Name	Product Model Number	Purchase Date	/ /
Model	(→ "Model Number Configuration")	Symptoms of Problem	With as much detail as possible.

8 Exchanging Globe

WARNING

Be sure the power is disconnected before exchanging the globe.

Perform the following steps when exchanging the globe for replacement, etc.

For Model XPE

- Release the lock, then turn the globe counterclockwise to remove.
- Remove the globe by pulling upward.
- Attach the new globe in reverse-order of the procedure instructed above. (Turn the globe securely until it is locked.)

CAUTION

Do not operate this product with the globe removed. Failure to comply will result in waterproofing performance.

For Model XME

- Unlock the latches (three places) which holds the flange in place.
- Remove the flange.
- Remove the globe by pulling upward.
- Attach the new globe in reverse-order of the procedure instructed above.

9 Specifications

For Model XPE

Model	Rated Voltage	Mounting Location	Protection Rating	Maximum Operating Ambient Temperature	Current Consumption	Flash Rate	Mass
XPE-12	12 V DC	Indoor or Outdoor Use	IP23	75°C	Max. 0.50A	110 ± 11 rpm (Triple-flash)	1.2kg
XPE-24	24 V DC				Max. 0.23A		
XPE-M2	100 / 200 / 230 V AC				Max. 0.12A		

- This product conforms to EN standard and shows the CE Marking.
- This product conforms to FCC rules. (12VDC, 24VDC type)

For Model XME

Model	Rated Voltage	Mounting Location	Protection Rating	Maximum Operating Ambient Temperature	Power Consumption	Flash Rate	Mass
XME-12	12 V DC	Indoor or Outdoor Use	IP23	75°C	Max. 0.50A	110 ± 11 rpm (Triple-flash)	1.8kg
XME-24	24 V DC				Max. 0.23A		
XME-M2	100 / 200 / 230 V AC				Max. 0.12A		

- This product conforms to EN standard and shows the CE Marking.
- This product conforms to FCC rules. (12VDC, 24VDC type)

10 Replacement Parts

The following replacement parts for this product are available. Please visit our company home page for more details.

For Model XPE		For Model XME	
Part Name	Remarks	Part Name	Remarks
Globe Red	Only the globe (Red) is included.	Globe Red	Only the globe (Red) is included.
Globe Amber	Only the globe (Amber) is included.	Globe Amber	Only the globe (Amber) is included.
Globe Blue	Only the globe (Blue) is included.	Globe Green	Only the globe (Green) is included.
Globe O-ring	Only the globe O-ring is included.	Globe Blue	Only the globe (Blue) is included.
		Globe O-ring	Only the globe O-ring is included.

※ For 12VDC, 24VDC
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

※ Due to LED and globe color compatibility, changing the globe cannot be done without the LED unit being changed as well.

世界中心「安心・安全・実用」を追求する

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※ 技術相談窓口

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<Note> ・ Specifications may change without notice due to continual product improvement.

・ Responsibility will not be taken if failure or damage, etc. is caused by handling in contrary to the warnings and notes written in this operation manual.