

UNIVERSAL POWER MODULE
UPM



PM2DRM TREE STRAP™ Driver Housing

Installation Instructions



Warning



High Voltage



Hot Surface

NEEDED FOR INSTALLATION:

- 5/64" Allen Wrench
- Waterproof Wire Connectors
- Hammer
- Phillips Screwdriver

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS

Lighted fixture is HOT!

WARNING - To reduce the risk of FIRE OR INJURY TO PERSONS:

Turn off/unplug and allow to cool before replacing LED. Fixture gets HOT quickly! Contact only switch/plug when turning on. Do not touch hot lens, guard, or enclosure. Keep fixture away from materials that may burn. Do not operate the luminaire fitting with a missing or damaged shield. Do not touch the source at any time. Use a soft cloth or gloves. Oil from skin may cause damage.

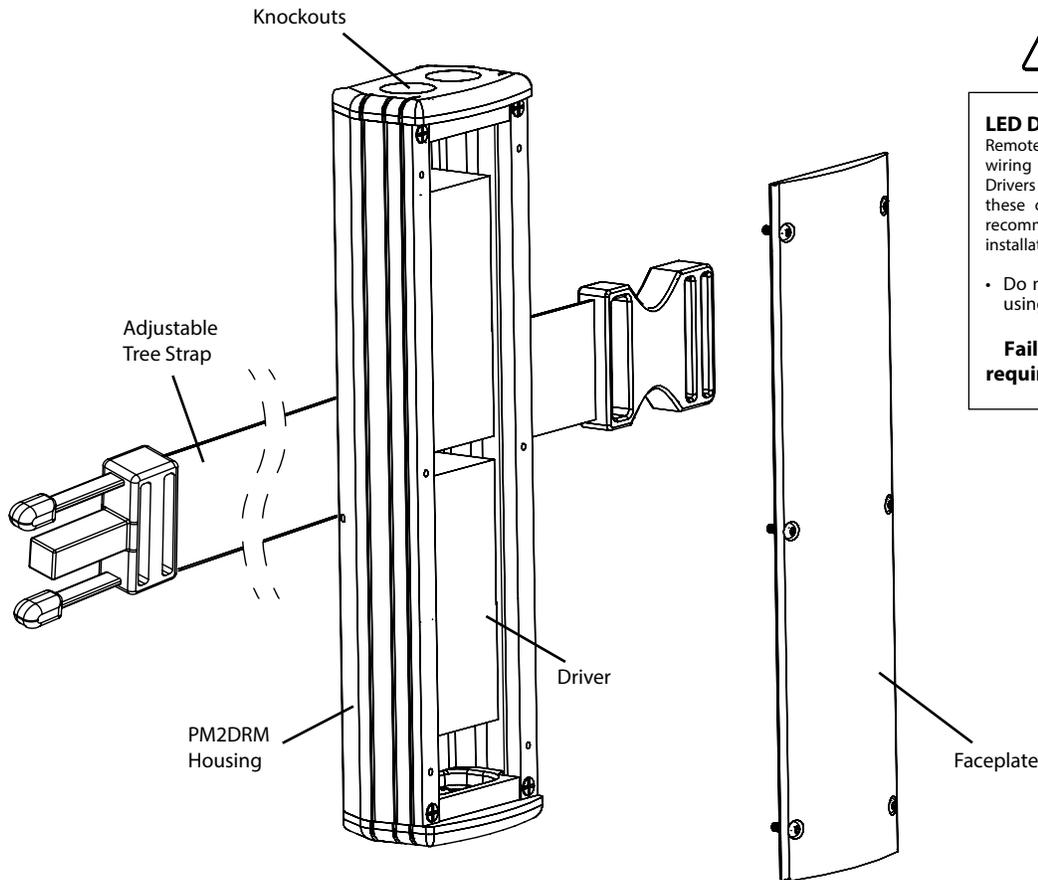
SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INFORMATION - READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS

- Product must be installed by a qualified person in a manner consistent with its intended use and in compliance with the National Electrical Code, Canadian Electrical Code, and all Local and Provincial Codes.
- Follow product label information and instructions.
- Qualified Personnel with appropriate personal protective equipment must perform all servicing of this product.
- Before wiring to power supply and during servicing, turn off and lock out power at fuse or circuit breaker before service.
- The use of accessory equipment not recommended by the manufacturer or installed contrary to instructions may cause an unsafe condition. The use of damaged components may cause an unsafe condition and void product warranty.
- Do not block light emanating from product in whole or part, as this may cause an unsafe condition.
- Never operate the fixture with missing or damaged lens. Lens must be cleaned on regular basis.
- Entire fixture may become extremely hot. Do not touch hot lens or fixture body.
- Replace LED assembly only with correct wattage and type of power supply appropriate for LED assembly.
- All gaskets, o-rings and sealing surfaces must be kept clean during installation and service; failure to do this may cause an unsafe condition and void product warranty.

IMPORTANT LISTINGS AND CERTIFICATIONS

- Suitable for wet locations



⚠ REMOTE WIRING

LED Driver

Remote driver installations require inter-connected wiring between the LED and driver (By Others). Drivers have specific wiring requirements between these components. Driver manufacturers regularly recommend the following wiring details for such installations:

- Do not exceed 50 foot overall wiring distance using 12 gauge copper wire.

Failure to comply with specific wiring requirements will void product warranty.

* UPM is covered in whole or in part by US patent #6,940,012

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B-K LIGHTING

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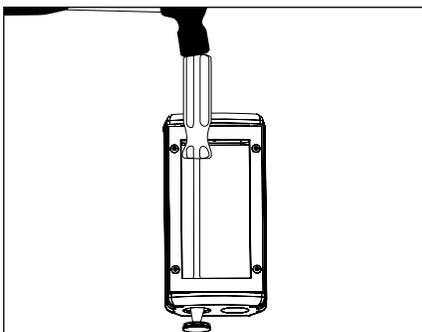
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12-15-16

REFERENCE NUMBER
INS-2541-00

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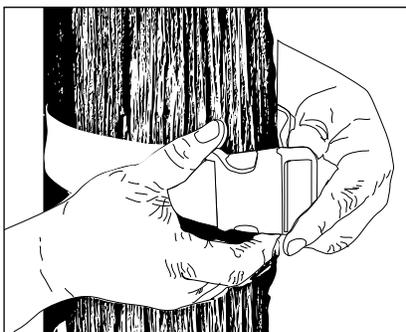


PM2DRM TREE STRAP™ Driver Housing

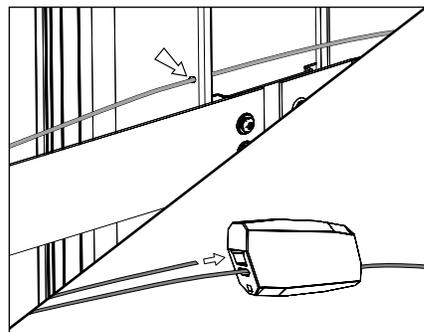


1. Remove Patented Knockout(s) as necessary from the inside of the UPM housing for branch circuit wiring and lamp leads to remote mounted fixture. Leave remaining unused knockouts in place to maintain seal.

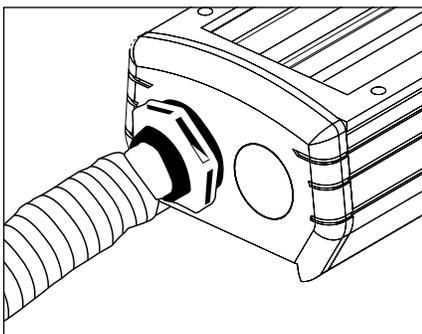
⚠ NOTE: Patented design featuring a silicone 'O' Ring allowing knockout to be tapped back into place to renew seal integrity.



2. Use adjustable strap provided to attach UPM housing to tree. Tighten by pulling on the adjustable strap until secure.

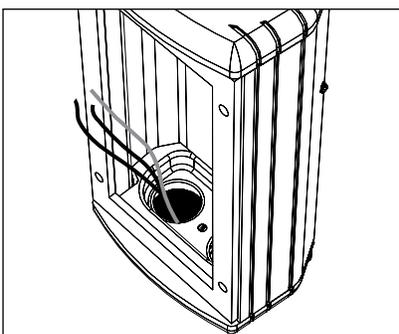


3. **Optional Step:** Thread safety cable through hole on the back of the UPM housing. Feed safety cable through opposing ends of the connector. Pull on wires to assure the connection is secure. Leave enough slack in safety cable for tree growth. Adjustments can be made by pressing release spring with a pin or 3/64" Allen tool.

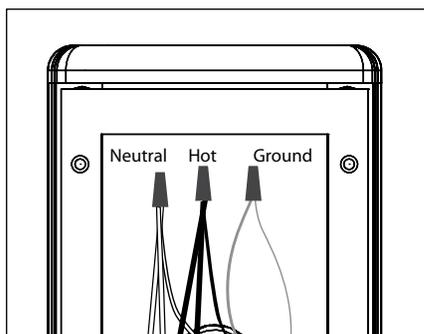


4. Connect 1/2" conduit connector through female threaded conduit entry.

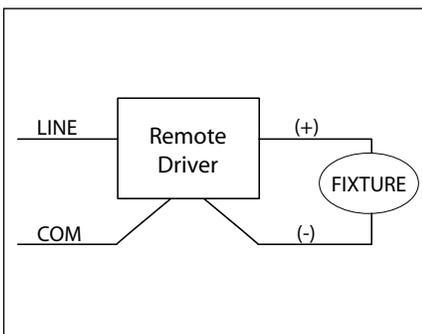
⚠ NOTE: Surface conduit is a common entrance for water if not properly sealed. Seal connector threads and conduit pipe with a suitable sealant (Teflon tape, adhesive, etc). Sealing the conduit after knockouts are removed is required to maintain warranty.



5. Pull branch circuit wiring necessary for installation (By Others.)



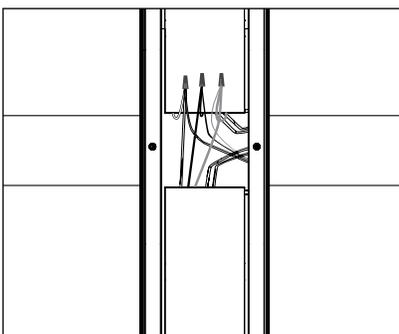
6. Use waterproof wire connectors (By Others) to connect both drivers primary leads to branch circuit wires. Connect incoming ground and drivers ground to ground wire provided in UPM housing. **See wiring diagram.**



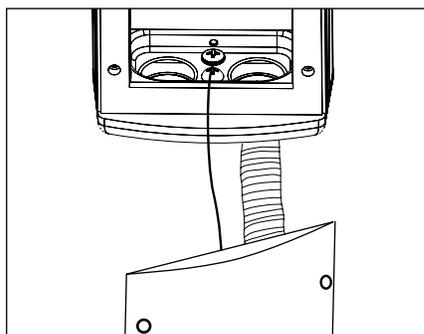
WIRING DIAGRAM

7. Pull secondary leads into UPM housing. Make watertight connections to driver secondary leads using waterproof wire connectors (By Others).

⚠ NOTE: See driver warning on page 1. Failure to comply with wiring requirements will void warranty.



8. Remove the backing from adhesive tape on drivers, place in bottom of UPM housing void of any wiring and press firmly for five seconds to ensure good contact.



9. Attach tether wire under screw head at the base of the UPM housing and tighten. Slowly lower the faceplate until tether is taut.

⚠ NOTE: Faceplate tether supplied with UPM is designed as an installation aid and NOT a safety cable. Do not add weight to, or drop faceplate.

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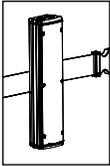


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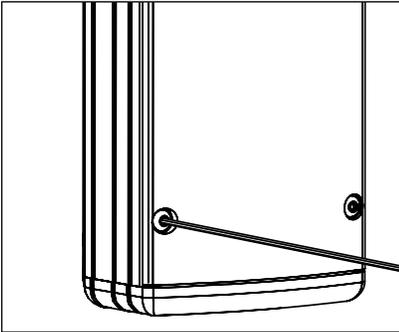


UNIVERSAL POWER MODULE
UPM

Installation Instructions



PM2DRM TREE STRAP™
Driver Housing

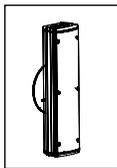


- 10. Make sure UPM body gasket is free of any dirt or debris. Attach the faceplate by tightening the (4) #6-32 captive screws evenly using a 5/64" Allen wrench.

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UNIVERSAL POWER MODULE
UPM

Installation Instructions



PM2DRM ROUND CAMLOCK™ Driver Housing



Warning



High Voltage



Hot Surface

NEEDED
FOR
INSTALLATION:

1/8", 5/64" & 9/64" Allen Wrench

Waterproof Wire connectors

Phillips Screwdriver

Level

By Others

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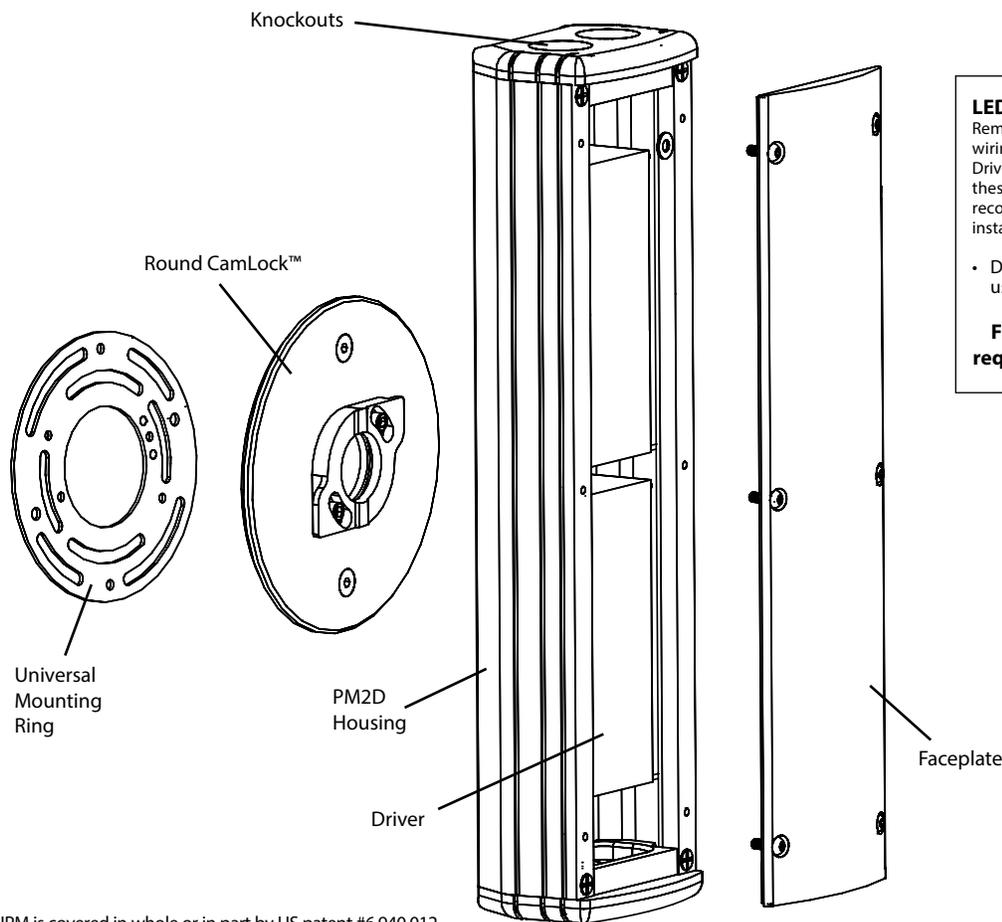
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IMPORTANT LISTINGS AND CERTIFICATIONS

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LED Driver

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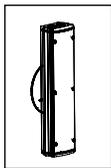
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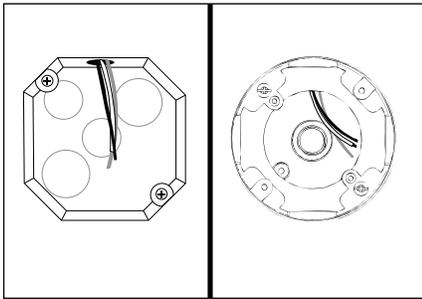


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UPM

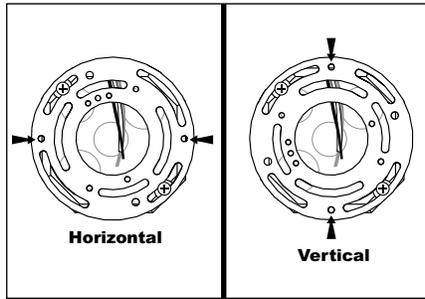
Installation Instructions



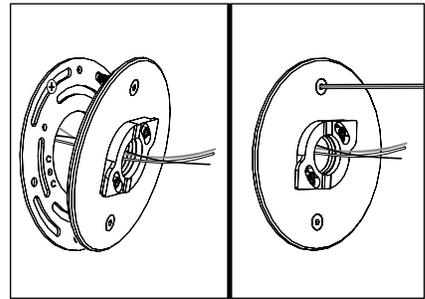
PM2DRM ROUND CAMLOCK™
Driver Housing



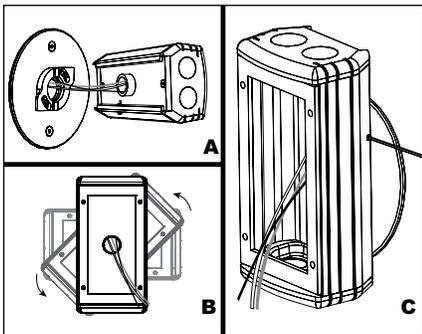
1. Install standard 4" octagonal/round recessed junction box in the final fixture location according to designed lighting plan.
2. Pull branch circuit wiring necessary for installation (By Others.)



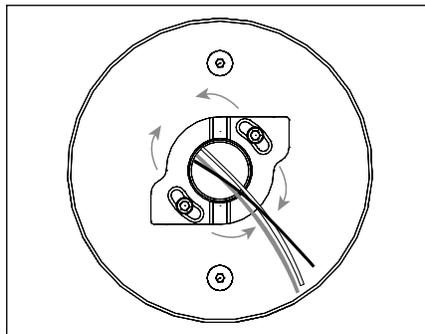
3. Install universal mounting ring.
- ⚠ IMPORTANT!! Orientation of universal ring will affect orientation of UPM! Take note of mounting plate holes (indicated with arrows) on the universal ring holes to mount UPM in correct orientation.**



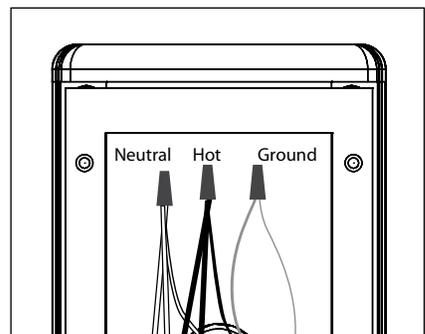
4. Feed branch circuit wiring and lamp leads to remote mounted fixture through mounting plate with CamLock™ assembly. Attach mounting plate with supplied (2) #10-24 stainless steel hex drive fasteners to universal ring using 1/8" Allen wrench.



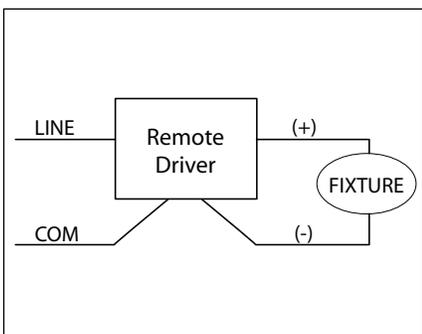
5. Feed branch circuit wiring into UPM housing. Install housing on CamLock™ at 90° to finished orientation as shown. (Figure A)
6. Rotate housing 90° counter-clockwise (Figure B). Tighten set screw with 5/64" Allen wrench on outside of UPM housing to lock in place. (Figure C)



7. If UPM housing is not level, remove UPM housing; loosen but **DO NOT REMOVE** (2) #8-32 screws with 9/64" Allen wrench on CamLock™ assembly. Adjust CamLock™ assembly up to 30° as needed to level. Tighten the screws and reattach UPM housing.



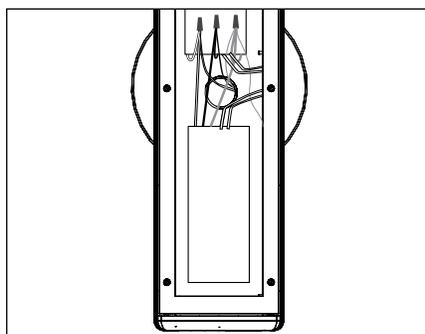
8. Use waterproof wire connectors (By Others) to connect both drivers primary leads to branch circuit wires. Connect incoming ground and drivers ground to ground wire provided in UPM housing. **See wiring diagram.**



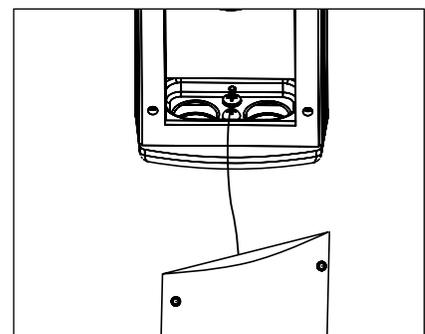
WIRING DIAGRAM

9. Pull secondary leads into UPM housing. Make watertight connections to driver secondary leads using waterproof wire connectors (By Others).

⚠ NOTE: See driver warning on page 1. Failure to comply with wiring requirements will void warranty.



10. Remove the backing from adhesive tape on drivers, place in bottom of UPM housing void of any wiring and press firmly for five seconds to ensure good contact.



11. Attach tether wire under screw head at the base of the UPM housing. Slowly lower the faceplate until tether is taut.

⚠ NOTE: Faceplate tether supplied with UPM is designed as an installation aid and NOT a safety cable. Do not add weight to, or drop faceplate.

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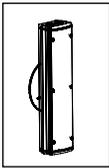


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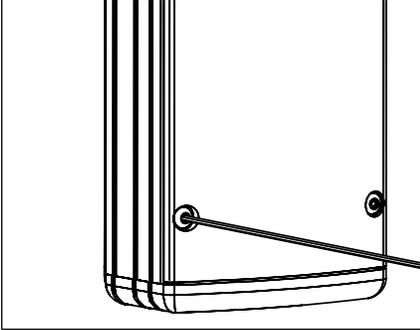


UNIVERSAL POWER MODULE
UPM

Installation Instructions



PM2DRM ROUND CAMLOCK™ Driver Housing



12. Make sure UPM body gasket is free of any dirt or debris. Attach the faceplate by tightening the (4) #6-32 captive screws evenly to 6-9 in-lbs using a 5/64" Allen wrench.

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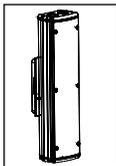


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UNIVERSAL POWER MODULE
UPM

Installation Instructions



PM2DRM RECTANGULAR CAMLOCK™ Driver Housing



Warning



High Voltage



Hot Surface

NEEDED
FOR
INSTALLATION:

- 5/64" & 9/64" Allen Wrench
- Waterproof Wire Connectors
- Phillips Screwdriver
- Level

By Others

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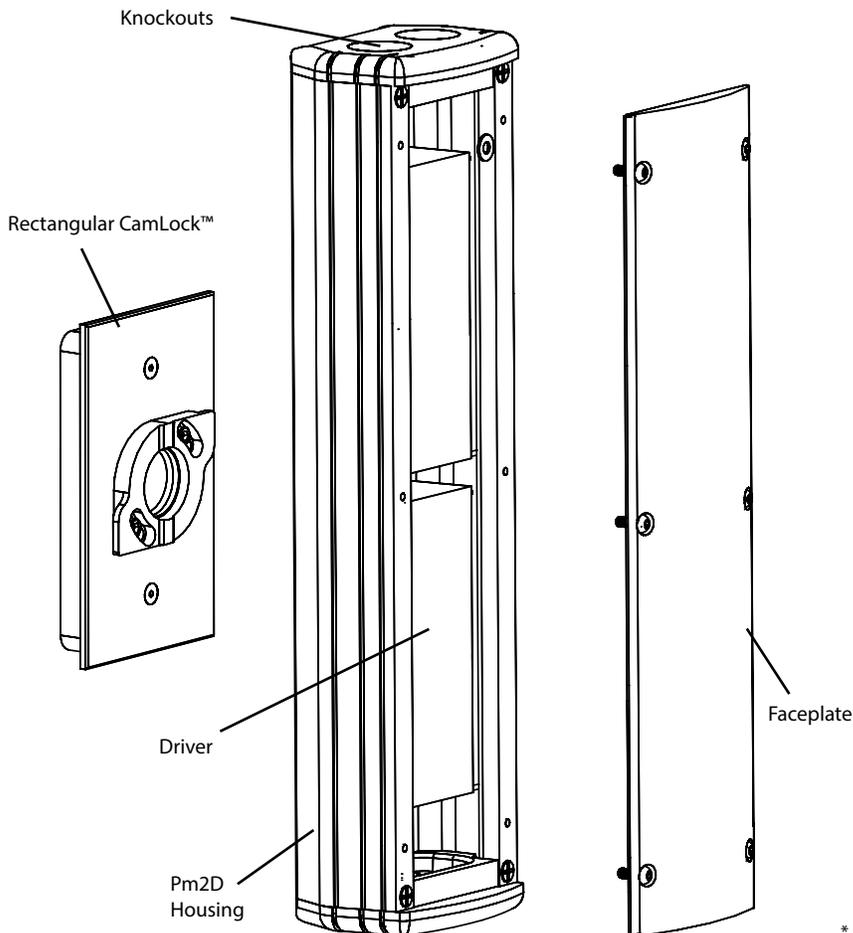
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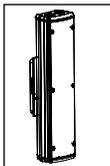
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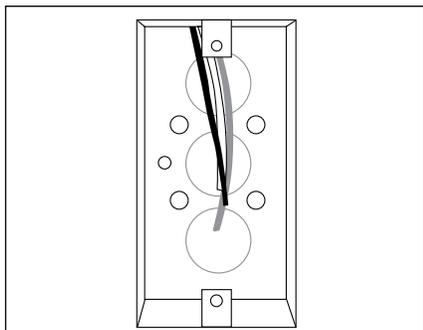
UNIVERSAL POWER MODULE
UPM

THE POWER OF



PM2DRM RECTANGULAR CAMLOCK™ Driver Housing

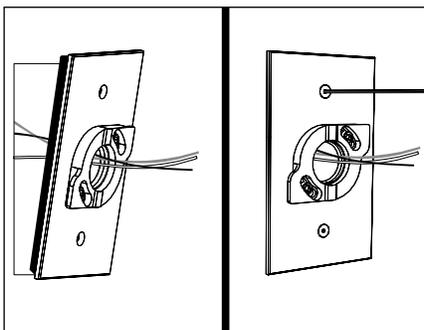
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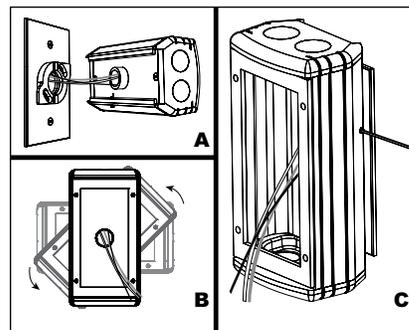
1. Install standard 4.5" x 2.85" recessed junction box (By Others) in the final fixture location according to designed lighting plan.

⚠ NOTE: Vertical or horizontal installation of recessed junction box determines orientation of UPM.

2. Pull branch circuit wiring necessary for installation (By Others.)

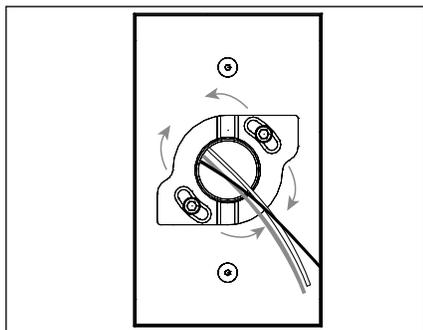


3. Feed branch circuit wiring and lamp leads to remote mounted fixture through mounting plate with CamLock™ assembly. Attach mounting plate with supplied (2) #6-32 stainless steel hex drive fasteners to recessed junction box using a 5/64" Allen wrench.

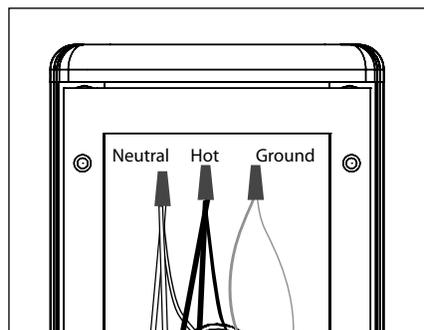


4. Feed wire into UPM housing. Install housing on CamLock™ at 90° to finished orientation as shown. (Figure A)

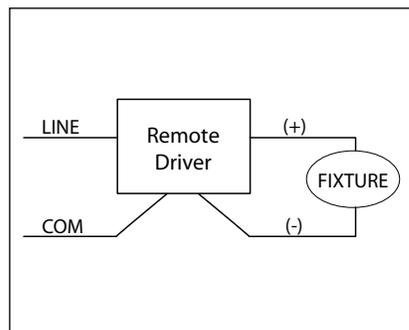
5. Rotate housing 90° counter-clockwise (Figure B). Tighten set screw with 5/64" Allen wrench on outside of UPM housing to lock in place. (Figure C)



6. If UPM housing is not level, remove UPM housing; loosen but **DO NOT REMOVE** (2) #8-32 screws with 9/64" Allen wrench on CamLock™ assembly. Adjust CamLock™ assembly up to 30° as needed to level. Tighten the screws and reattach UPM housing.



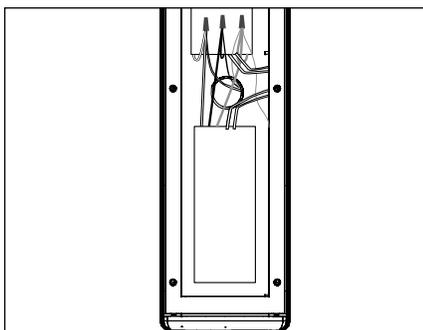
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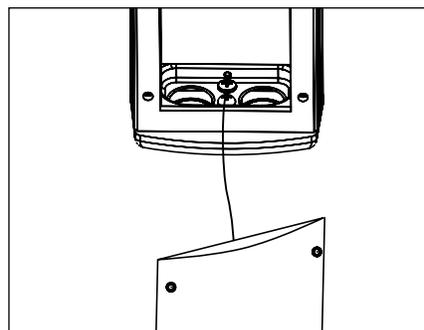
WIRING DIAGRAM

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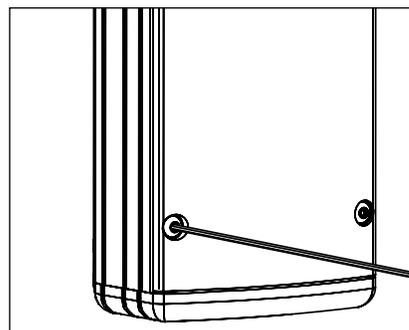


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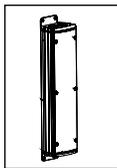


B-K LIGHTING

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RELEASE DATE
12-15-16

REFERENCE NUMBER
INS-2542-01



UNIVERSAL POWER MODULE
UPM



PM2DRM SURFACE MOUNT™ Driver Housing

Installation Instructions



Warning



High Voltage



Hot Surface

NEEDED FOR INSTALLATION:

- 5/64" Allen Wrench
- 1/4" Drill Bit and Drill
- Wire Connectors
- Mounting Hardware
- Hammer
- Phillips Screwdriver

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS

Lighted fixture is HOT!

WARNING - To reduce the risk of FIRE OR INJURY TO PERSONS:

Turn off/unplug and allow to cool before replacing LED. Fixture gets HOT quickly! Contact only switch/plug when turning on. Do not touch hot lens, guard, or enclosure. Keep fixture away from materials that may burn. Do not operate the luminaire fitting with a missing or damaged shield. Do not touch the source at any time. Use a soft cloth or gloves. Oil from skin may cause damage.

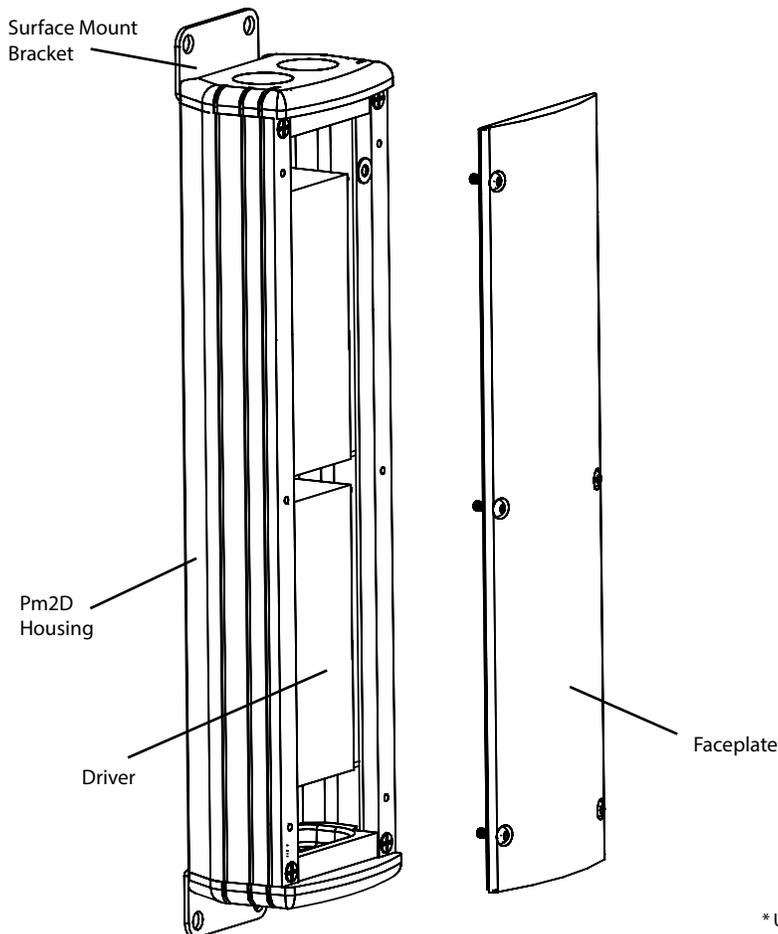
SAVE THESE INSTRUCTIONS

IMPORTANT SAFETY INFORMATION - READ, FOLLOW, AND SAVE ALL SAFETY AND INSTALLATION INSTRUCTIONS

- Product must be installed by a qualified person in a manner consistent with its intended use and in compliance with the National Electrical Code, Canadian Electrical Code, and all Local and Provincial Codes.
- Follow product label information and instructions.
- Qualified Personnel with appropriate personal protective equipment must perform all servicing of this product.
- Before wiring to power supply and during servicing, turn off and lock out power at fuse or circuit breaker before service.
- The use of accessory equipment not recommended by the manufacturer or installed contrary to instructions may cause an unsafe condition. The use of damaged components may cause an unsafe condition and void product warranty.
- Do not block light emanating from product in whole or part, as this may cause an unsafe condition.
- Never operate the fixture with missing or damaged lens. Lens must be cleaned on regular basis.
- Entire fixture may become extremely hot. Do not touch hot lens or fixture body.
- Replace LED assembly only with correct wattage and type of power supply appropriate for LED assembly.
- All gaskets, o-rings and sealing surfaces must be kept clean during installation and service; failure to do this may cause an unsafe condition and void product warranty.

IMPORTANT LISTINGS AND CERTIFICATIONS

- Suitable for wet locations



⚠ REMOTE WIRING

LED Driver

Remote driver installations require inter-connected wiring between the LED and driver (By Others). Drivers have specific wiring requirements between these components. Driver manufacturers regularly recommend the following wiring details for such installations:

- Do not exceed 50 foot overall wiring distance using 12 gauge copper wire.

Failure to comply with specific wiring requirements will void product warranty.

* UPM is covered in whole or in part by US patent #6,940,012

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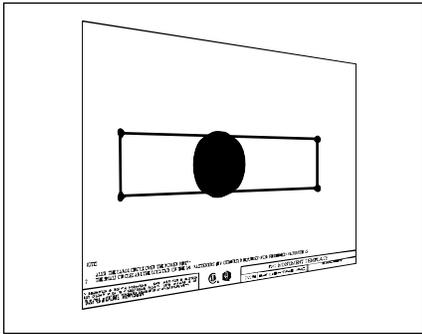
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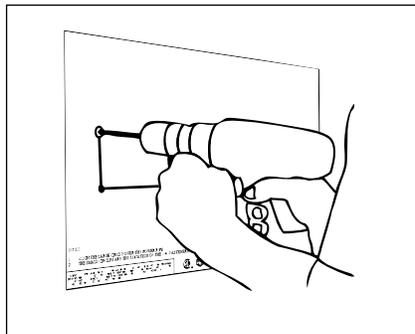
Installation Instructions



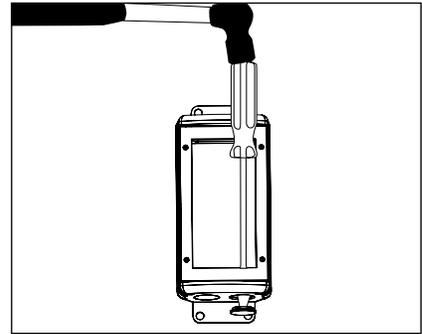
PM2DRM SURFACE MOUNT™ Driver Housing



1. Prepare in final mounting position according to designed lighting plan.

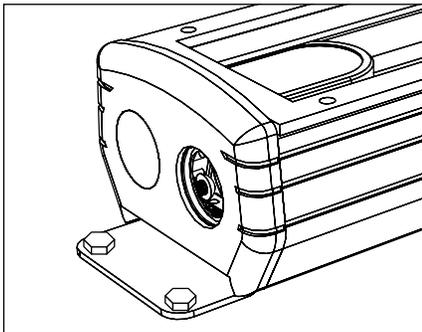


2. Drill holes into surface for 1/4" fasteners (By Others) on locations required



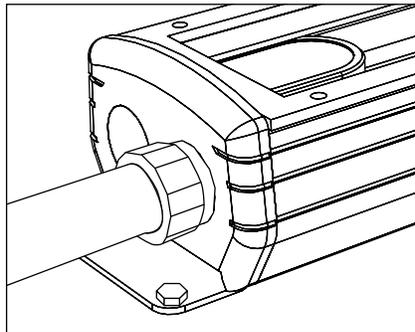
3. Remove Patented Knockout(s) as necessary from the inside of the UPM housing for branch circuit wiring and lamp leads to remote mounted fixture. Leave remaining unused knockouts in place to maintain seal.

NOTE: Patented design featuring a silicone 'O' Ring allowing knockout to be tapped back into place to renew seal integrity.



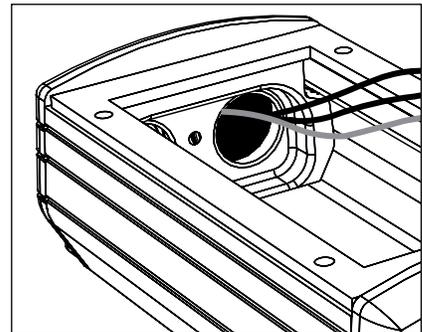
4. Attach the UPM housing at mounting brackets with 1/4" fasteners (By Others). Use suitable mounting hardware for surface.

NOTE: Many methods exist to bolt to a flat surface. The fixture is provided with mounting brackets with 1/4" holes.

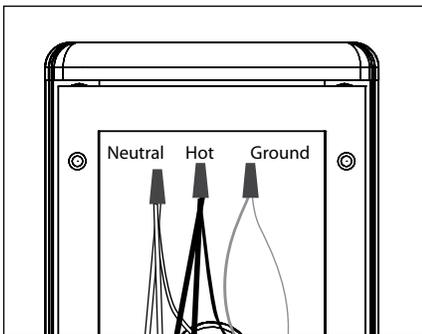


5. Connect 1/2" conduit connector through female threaded conduit entry.

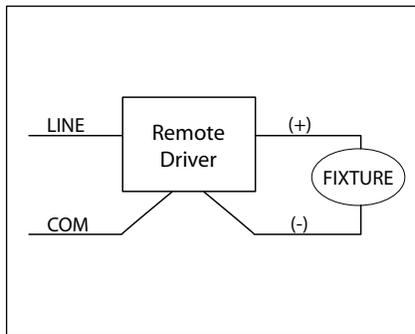
NOTE: Surface conduit is a common entrance for water if not properly sealed. Seal connector threads and conduit with a suitable sealant (Teflon tape, adhesive, etc.). Sealing the conduit after knockouts are removed is required to maintain warranty.



6. Pull branch circuit wiring necessary for installation (By Others.)



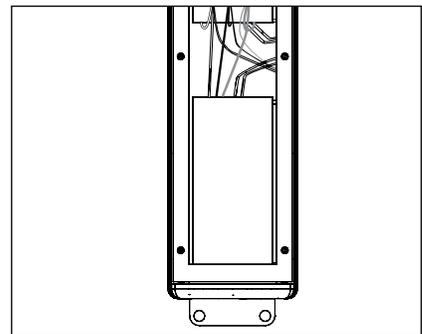
7. Use waterproof wire connectors (By Others) to connect both drivers primary leads to branch circuit wires. Connect incoming ground and drivers ground to ground wire provided in UPM housing. See wiring diagram.



WIRING DIAGRAM

8. Pull secondary leads into UPM housing. Make watertight connections to driver secondary leads using waterproof wire connectors (By Others).

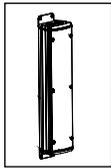
NOTE: See driver warning on page 1. Failure to comply with wiring requirements will void warranty.



9. Remove the backing from adhesive tape on drivers, place in bottom of UPM housing void of any wiring and press firmly for five seconds to ensure good contact.

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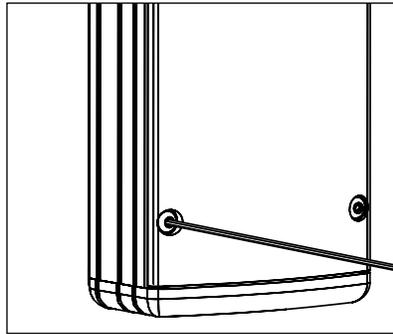
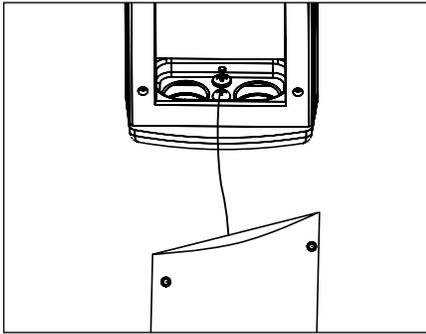


UNIVERSAL POWER MODULE
UPM



PM2DRM SURFACE MOUNT™ Driver Housing

Installation Instructions



10. Attach tether wire under screw head at the base of the UPM housing and tighten. Slowly lower the faceplate until tether is taut.

⚠ NOTE: Faceplate tether supplied with UPM is designed as an installation aid and NOT a safety cable. Do not add weight to, or drop faceplate.

11. Make sure UPM body gasket is free of any dirt or debris. Attach the faceplate by tightening the (4) #6-32 captive screws evenly using a 5/64" Allen wrench.

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