

TWIN SIGN STAR

MINI-MICRO LED



Standard Installation



Flammable



Warning



Low Voltage



Hot Surface

TOOLS NEEDED:



1/8", 9/64", 5/32" Allen Wrench



Waterproof Wire Connectors

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

Lighted fixture is HOT!

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SAVE THESE INSTRUCTIONS

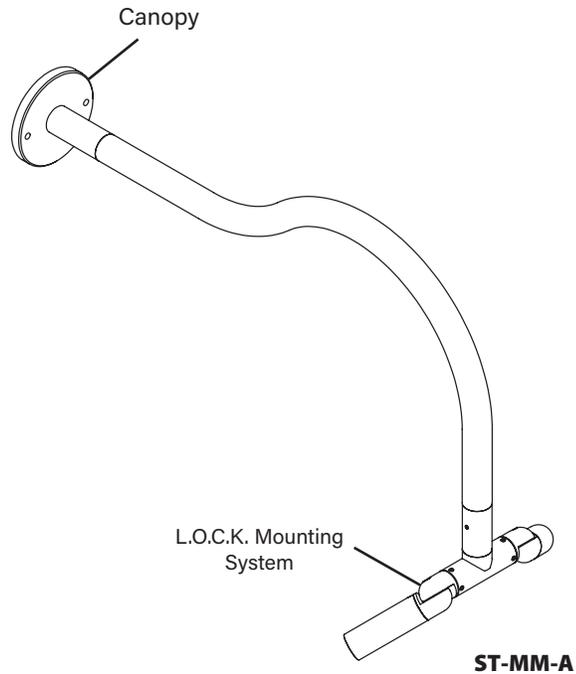
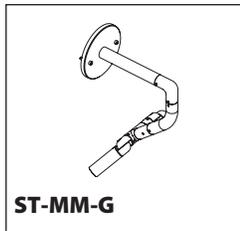
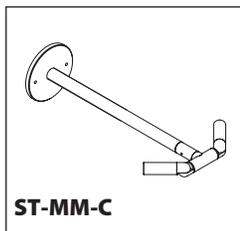
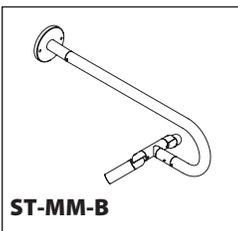
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- Follow product label information and instructions.
- Qualified Personnel with appropriate personal protective equipment must perform all servicing of this product.
- Before wiring to power supply and during servicing, turn off and lock out power at fuse or circuit breaker before service.
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- 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

Please refer to the low voltage design guide at www.bklighting.com/lvguide before installation for proper wire selection.



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

B-K LIGHTING

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www.bklighting.com • info@bklighting.com

RELEASE DATE
05/11/2023

REFERENCE NUMBER
INS-2249-00

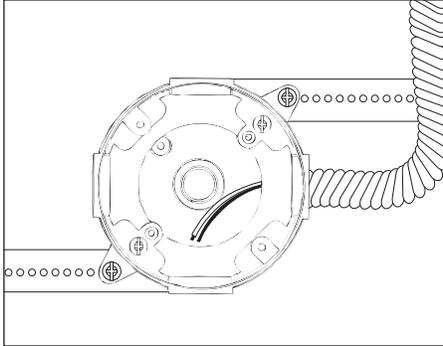
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Standard Installation

Phase 1 - Rough In

Installation of Back box

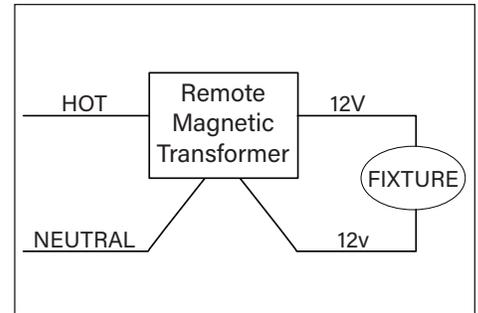
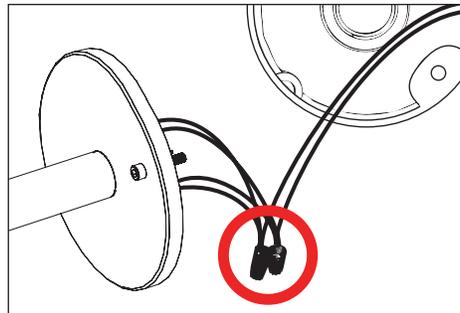
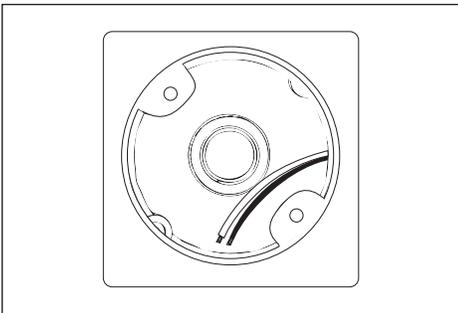


Additional Info

- Please follow National and Local electrical codes for your area.
- Mini-Micro Sign Star 3 1/2" dia. machined canopy permits mounting to 3" octagonal junction box or 4" junction box with mud ring.
- Junction box installation must be designed to hold full fulcrum weight of fixture.
- Junction box, mud ring, box mounting hardware and gaskets (not included).

1. Install conduit, junction box (not included) to be used with this product.
2. Install junction box so that front face is flush with finished wall or ceiling. Seal building envelope as per NEC.
3. Connect box to conduit and pull wires for connections (**See Wiring diagram**).

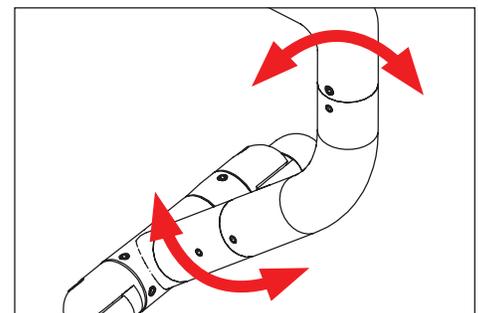
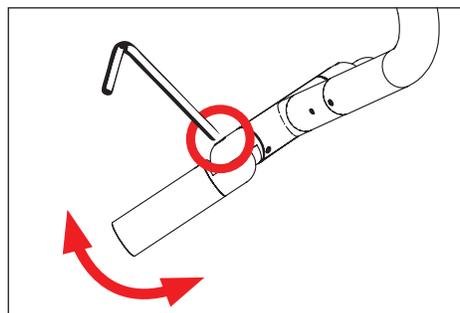
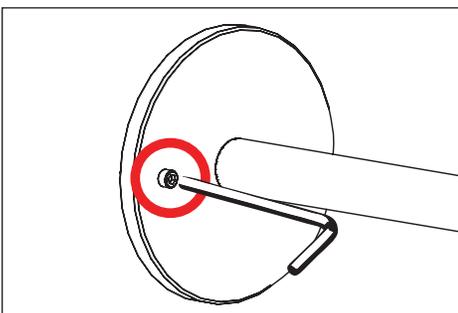
Phase 2 - Finish Installation of Fixture with Remote Transformer



1. Install mud ring to junction box using appropriate hardware (mud ring, junction box and hardware not included). Align canopy mounting holes to final mounting position.
2. Make watertight connections from remote transformer to fixture leads using waterproof wire connectors (not included). **See wiring diagram.**

WIRING DIAGRAM

⚠ LED - For use with 12VAC LED remote transformer or magnetic transformers only. B-K Lighting cannot guarantee performance with third party manufacturers' transformers.



3. Mount fixture canopy directly to 3" junction box or 4" junction box with mud ring using two (2) #10-24 hex screws using a 1/8" allen wrench. **Seal building envelope as per NEC. Do not overtighten.**
4. Use a 5/32" allen wrench to loosen #10-32 stainless steel black oxide socket head cap screw at the knuckle. Aim fixture to desired vertical location. Tighten to secure aiming position.
5. Use a 5/64" allen wrench to loosen #8-32 screws at bend(s). Aim fixture to desired position. Tighten to secure aiming position.

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Standard Installation

TWIN SIGN STAR

MINI-MICRO LED - POWER CANOPY



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Warning



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Hot Surface

TOOLS NEEDED:

-  5/64" & 5/32" Allen wrench
-  Waterproof Wire Connectors
-  Mounting Hardware

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

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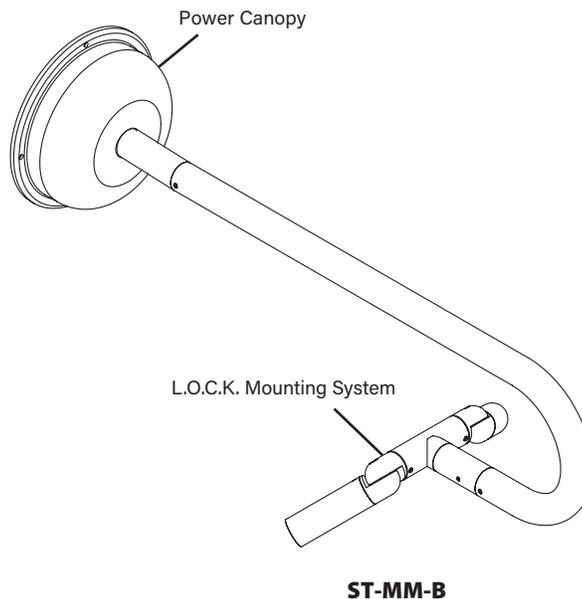
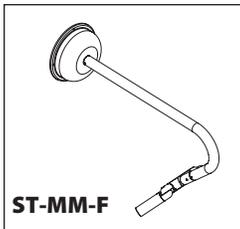
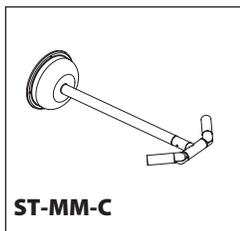
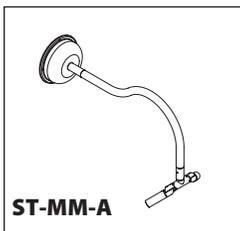
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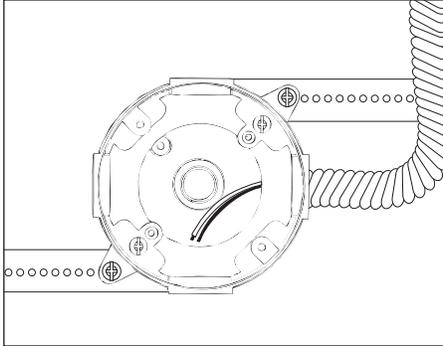
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Standard Installation

TWIN SIGN STAR MINI-MICRO LED - POWER CANOPY

Phase 1 - Rough In Installation of Back box

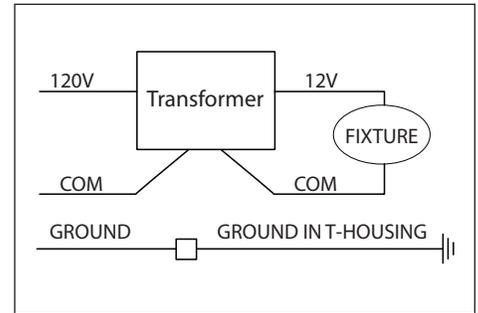
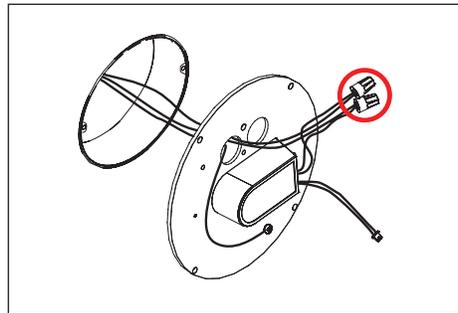
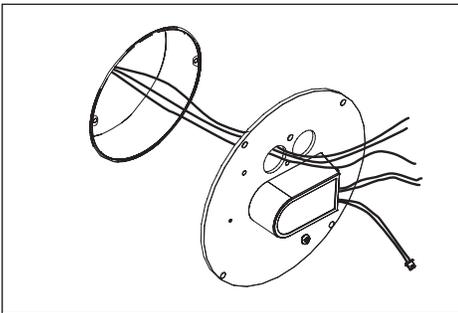


Additional Info

- Please follow National and Local electrical codes for your area.
- Junction box installation must be designed to hold full fulcrum weight of fixture.
- Junction box, universal mounting ring screws, box mounting hardware and gaskets (not included).

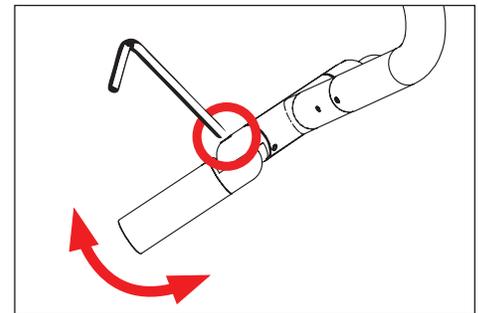
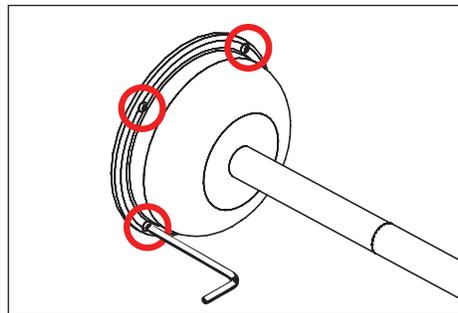
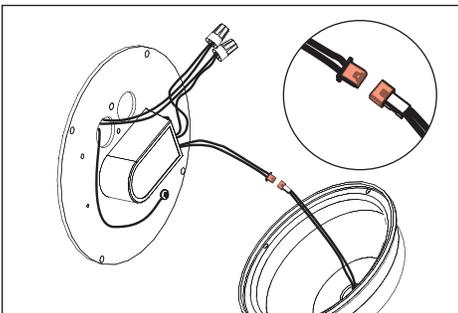
1. Install conduit, junction box (not included) to be used with this product.
2. Install junction box so that front face is flush with finished wall or ceiling. Seal building envelope as per NEC.
3. Connect box to conduit and pull wires for connections (**See Wiring diagram**).

Phase 2 - Finish Installation of Fixture with Power Canopy



1. Remove one or two wire entrance knockouts on wall plate. Pull primary branch circuit through knockout(s). Attach wall plate to junction box using appropriate hardware (not included).
2. Ground primary branch circuit to wall plate per NEC. Make connections from transformer to primary branch circuit using proper wire connectors. (not included). **See wiring diagram.**

WIRING DIAGRAM



3. Connect fixture to transformer with provided quick disconnect.
4. Mount canopy to wall plate using four (4) #8-32 stainless steel button head screws with a 5/64" allen wrench. **Seal building envelope as per NEC. Do not overtighten.**
5. Use a 5/32" allen wrench to loosen #10-32 stainless steel black oxide socket head cap screw at the knuckle. Aim fixture to desired vertical location. Tighten to secure aiming position.

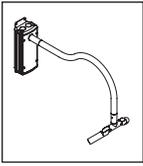
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Hot Surface

TWIN SIGN STAR

MINI-MICRO LED - UPM SURFACE MOUNT

TOOLS NEEDED:

- 1/8", 5/64" & 5/32" Allen Wrench
- Waterproof Wire Connectors
- Hammer
- Phillips Screwdriver
- 1/4" Drill Bit and Drill
- Mounting Hardware

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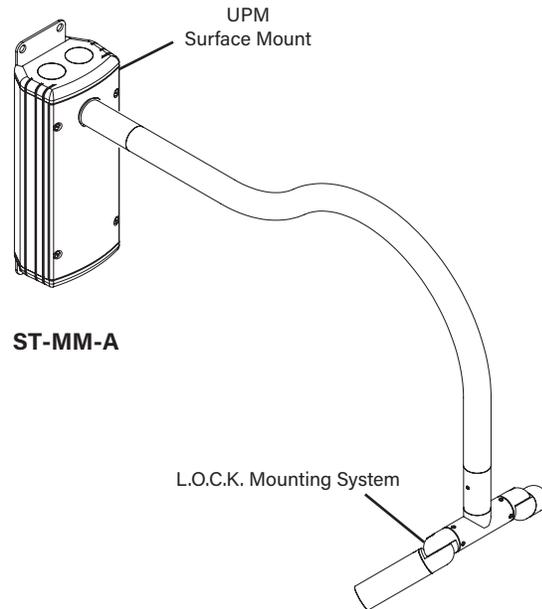
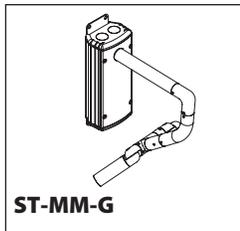
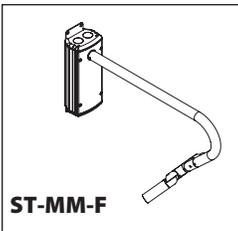
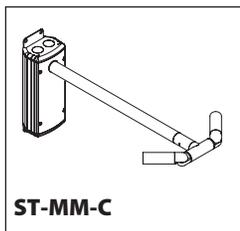
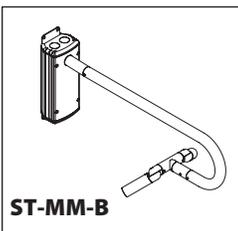
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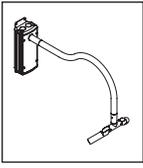
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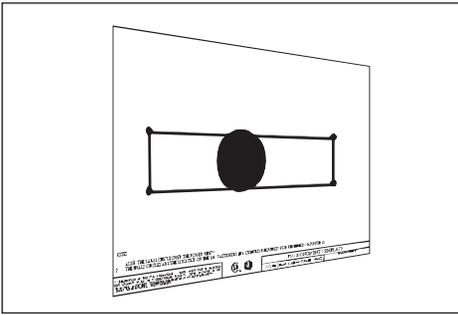
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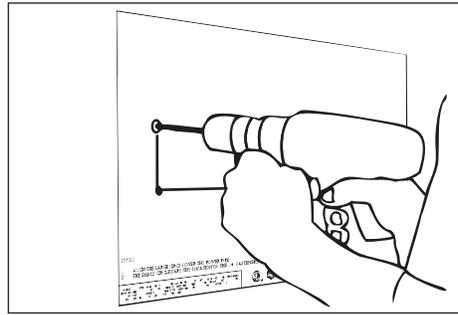
Standard Installation

TWIN SIGN STAR

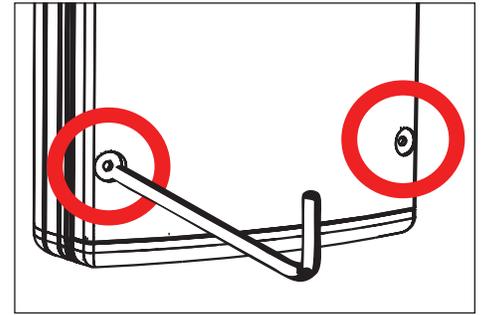
MINI-MICRO LED - UPM SURFACE MOUNT



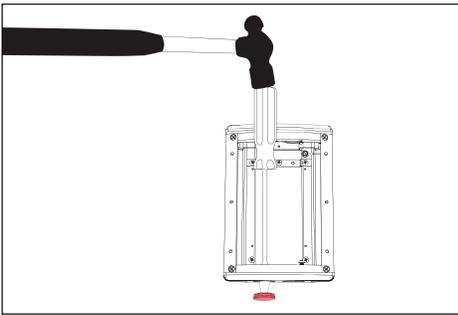
1. Prepare for final mounting position according to designed lighting plan.



2. Drill holes into surface for 1/4" fasteners on locations illustrated on template.

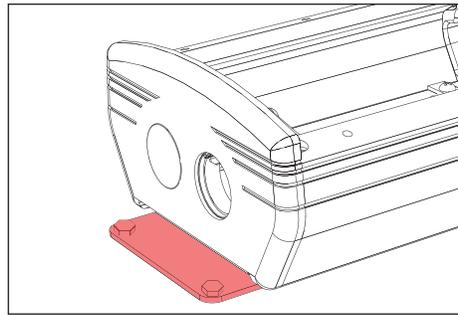


3. Loosen four (4) #6-32 captive screws using a 5/64" allen wrench and disconnect quick disconnect to remove faceplate of UPM housing.



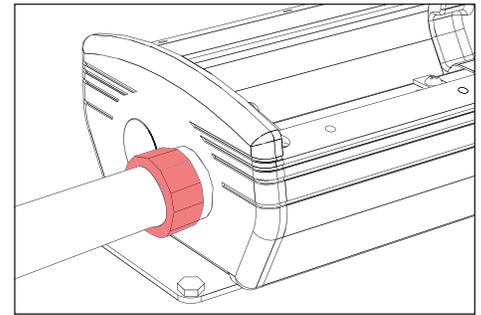
4. Remove Patented Knockout(s) as necessary from the inside of the UPM housing. Leave remaining unused knockouts in place to maintain seal.

NOTE: Patented design featuring a silicone o-ring allowing knockout to be tapped back into place to renew seal integrity.



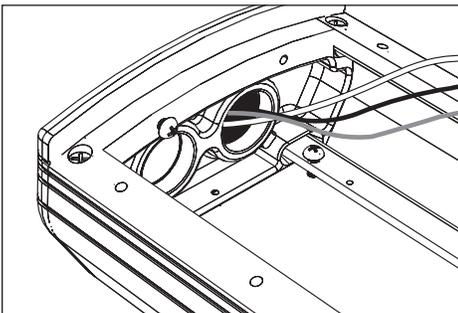
5. Attach the UPM housing at mounting brackets with 1/4" fasteners. Use suitable mounting hardware for surface.

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

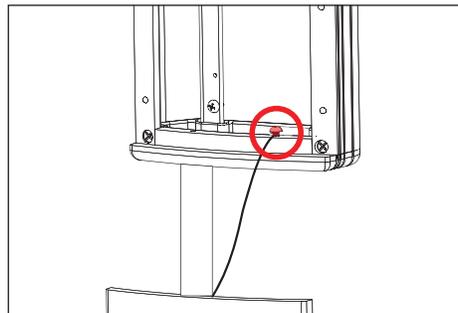


6. Connect 3/4" conduit connector through female threaded conduit entry.

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.

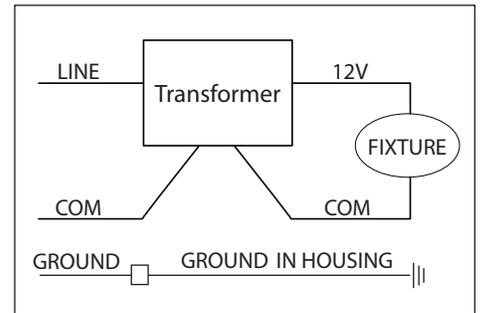


7. Pull branch circuit wiring necessary for installation.



8. 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.



WIRING DIAGRAM

9. Use waterproof wire connectors (not included) to connect transformer primary leads to branch circuit wires. Connect incoming ground to ground wire provided in UPM housing. See wiring diagram.

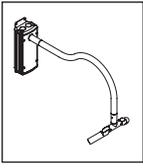
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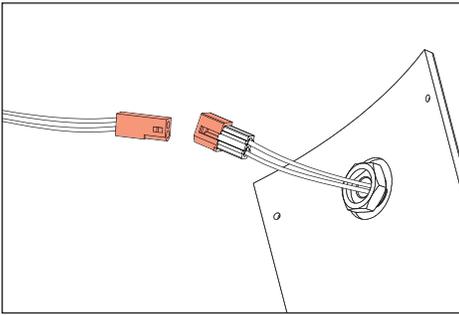
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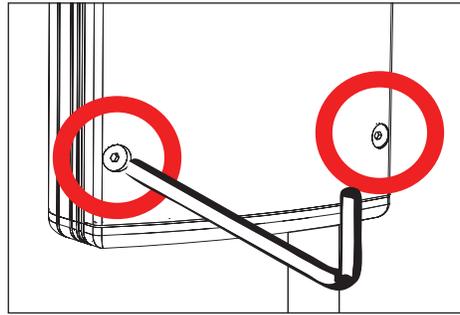
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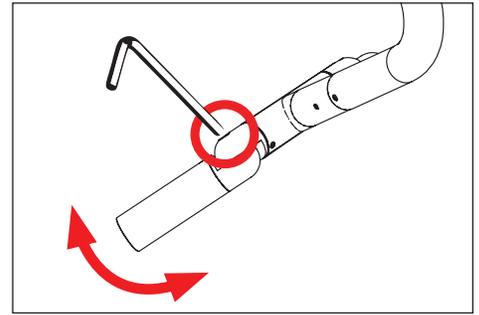
MINI-MICRO LED - UPM SURFACE MOUNT



10. Connect secondary leads from transformer to fixture leads using pre-wired factory quick disconnect.



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



12. Use a 5/32" allen wrench to loosen #10-32 stainless steel black oxide socket head cap screw at the knuckle. Aim fixture to desired vertical location. Tighten to secure aiming position.

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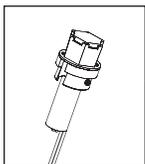
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LED BOARD/DRIVER/OPTICS

1" Body Size



Standard Installation/Replacement



Flammable



Warning



Low Voltage



Hot Surface

TOOLS NEEDED:



.050" & 9/64" Allen Wrench



Small Flat Head Screw Driver

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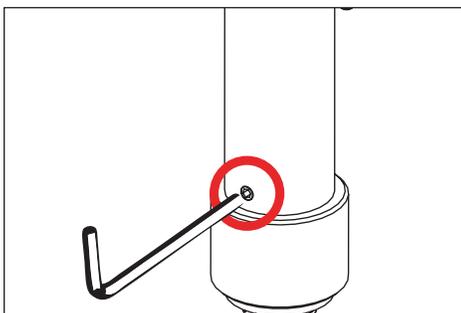
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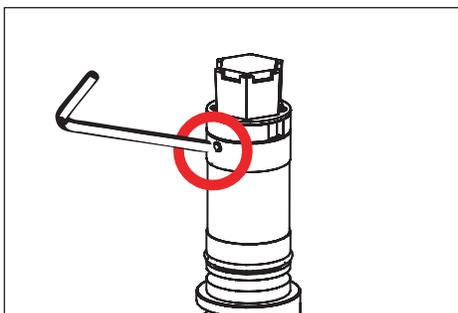
- Product must be installed by a qualified person in a manner consistent with its intended use and in compliance with the National Electrical Code, Canadian Electrical Code, and all Local and Provincial Codes.
- Follow product label information and instructions.
- Qualified Personnel with appropriate 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

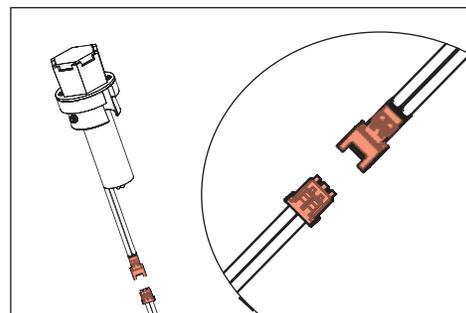
Re-placing LED Board/Driver and Optics



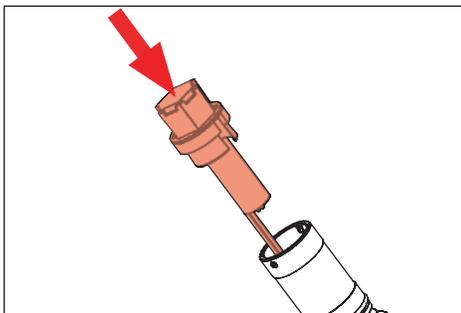
1. Use a 5/64" allen wrench to loosen #8-32 stainless steel set screw and remove cap.



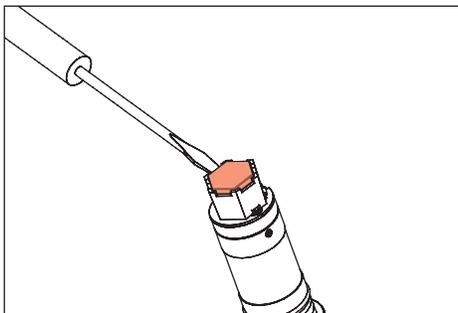
2. Use a .050" allen wrench to loosen two (2) #4-40 stainless steel set screws below LED board on the heat sink. Gently pull up on LED board and Driver assembly to expose quick disconnect.



3. Disengage LED board and driver assembly. Replace with new board and driver assembly.



4. Reverse install LED board and driver by carefully wrapping 18 gauge wires around driver and inserting into fixture body. Secure LED board in place with two (2) #4-40 stainless steel set screws.



5. Use small flat head screw driver to remove lens from optic holder on the LED. Snap new optic in place. Replace cap on fixture and tighten set screw.

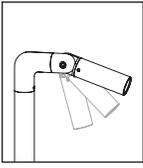
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B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

RELEASE DATE
05/10/2023

REFERENCE NUMBER
INS000003



Standard Adjustment

L.O.C.K. KNUCKLE SYSTEM



Flammable



Warning



Hot Surface

TOOLS NEEDED:

5/32" & 5/64" Allen Wrench

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 lamp/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.

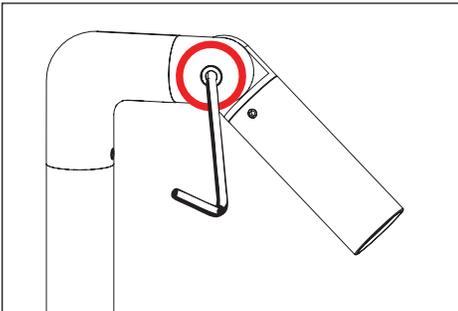
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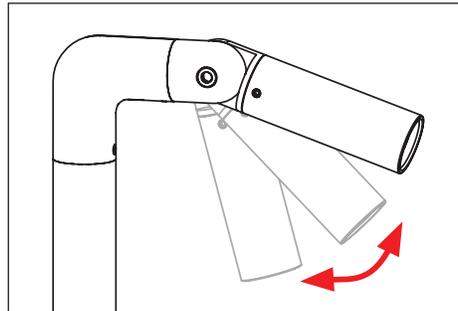
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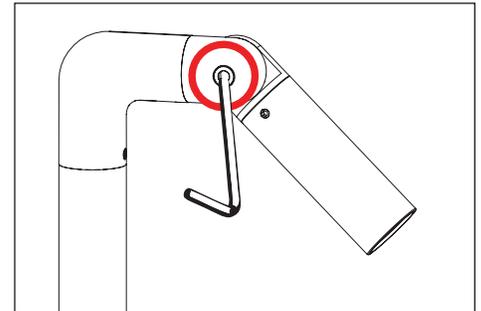
L.O.C.K. Knuckle - (Locking 'O' Ring Compression Knuckle)



1. Use a 5/32" allen wrench to slightly loosen #10-32 stainless steel set screw on the stem for 180° aiming purpose.

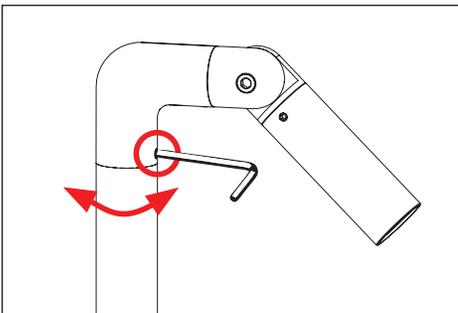


2. Aim fixture to desired angle.

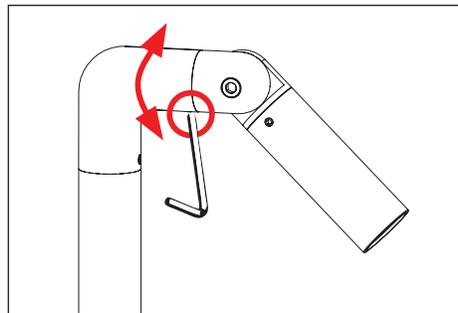


3. Tighten #10-32 stainless steel set screw using a 5/32" allen wrench to secure aiming position.

⚠ Warning: Do not over tighten set screw. Doing so will compromise o-ring seal and will void warranty. Cap should be able to rotate without force.



4. To adjust stem horizontally, loosen two (2) #8-32 screws at base of stem cap using a 5/64" allen wrench. Adjust as needed, then secure.



5. To adjust stem, loosen #8-32 screw with a 5/64" allen wrench at stem cap. Adjust as needed, then secure.

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