

LO-PRO JUNCTION BOX FOR MIKRODIM



INSTALLATION GUIDE



WARNING!

ALWAYS TURN OFF MAIN POWER BEFORE INSTALLING & SERVICING!

Ensure to read all Safety and Installation Instructions thoroughly!

IMPORTANT SAFETY INSTRUCTIONS

1. Read all instructions.
2. Install in accordance with national and local electrical code regulations.
3. This product is intended to be installed and serviced by a qualified, licensed electrician.
4. For cabinet and surface mount use only.
5. Do not install outdoors or in wet locations. For indoor and dry use only.
6. Do not conceal or extend exposed conductors through a building wall.
7. For low voltage exposed insulated conductor systems required by 30.1(c) of UL 2108 do not install any part of this system less than 7 feet (2.2m) above the floor.
8. To reduce the risk of fire and burns, do not install this lighting system where the exposed bare conductors can be shorted or contact any conductive materials.
9. To reduce the risk of fire and overheating, make sure all connections are tight.
10. Do not install any luminaire closer than 6 inches (15.25cm) from any curtain, or similar combustible materials.
11. Turn off electrical power before modifying the lighting system in any way.

SAVE THESE INSTRUCTIONS

CONSIGNES DE SÉCURITÉ IMPORTANTES

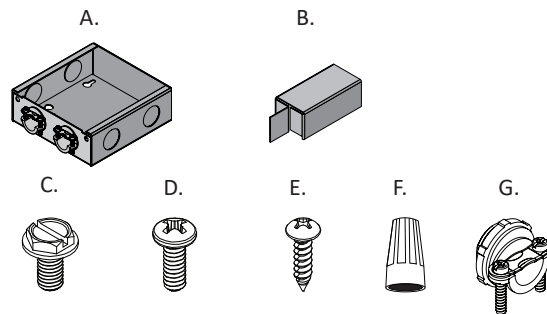
1. Lisez toutes les instructions
2. Installez conformément à la réglementation du code électrique national et local.
3. Ce produit est destiné à être installé et entretenu par un électricien agréé qualifié.
4. Pour armoire et montage en surface utiliser seulement.
5. Ne pas installer à l'extérieur ou dans des endroits humides. Pour une utilisation en intérieur et sec seulement.
6. Ne pas cacher ou allonger des conducteurs exposés à travers un mur de bâtiment.
7. Pour la basse exposée tension systèmes de conducteurs isolés requis par 30.1 (c) de la norme UL 2108 ne pas installer une partie de ce système moins de 7 pieds (2.2m) au-dessus du sol.
8. Pour réduire le risque d'incendie et de brûlures, ne pas installer ce système d'éclairage où les conducteurs nus exposés peuvent être court-circuités ou communiquer avec tous les matériaux conducteurs. To reduce the risk of fire and overheating, make sure all connections are tight.
9. Pour réduire le risque d'incendie et de surchauffe, assurez-vous que toutes les connexions sont bien serrées.
10. Ne pas installer un luminaire à moins de 6 pouces (15,25 cm) de toute rideau, ou matériaux combustibles analogues.
11. Coupez l'alimentation électrique avant de évoluer le système d'éclairage en aucune façon.

CONSERVER CES INSTRUCTIONS

SUPPLIED ACCESSORIES

- | | |
|--------------------------------|---|
| A. Mikro Junction Box (1) | F. Wire Connector 22-14AWG (600V) (6) |
| B. Driver Mounting Bracket (1) | G. NM (Non-Metallic) Cable Strain Relief (2) - 1/2" |
| C. Ground Screw (1) | |
| D. Cover Screws (2) | |
| E. Mounting Screws (4) | |

Power Supply/LED Driver Sold Separately.

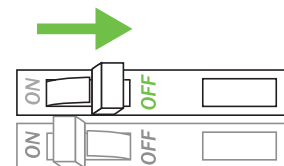


INSTALLATION

① TURN POWER OFF AT CIRCUIT BREAKER



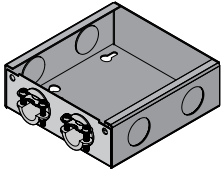
SHOCK HAZARD! May result in serious injury or death.
Turn power OFF at circuit breaker prior to installation.



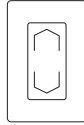
INSTALLATION CONT.

② DETERMINE LOCATION TO INSTALL COMPONENTS

Refer to **SYSTEM DIAGRAM** under step 7. *Ensure to calculate LED load properly for loading LED driver. See LED luminaire installation guide for calculating loads.*



1) Mikro Driver
& Junction Box



2) Control

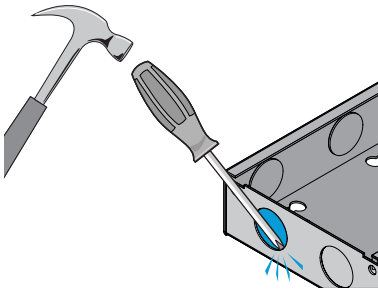


3) Fixture

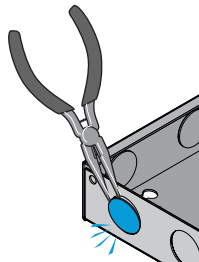
WIRE GAUGE & VOLTAGE DROP

Ensure applicable wire is installed between driver, fixture, and any controls in between. When choosing wire, factor in voltage drop, amperage rating, and type (in-wall rated, wet location rated, etc.)

③ PUNCH OUT KNOCKOUTS FOR CONDUIT ACCESS



a. Use punch and hammer to loosen appropriate K/O. (Inner K/O for 1/2" fittings)

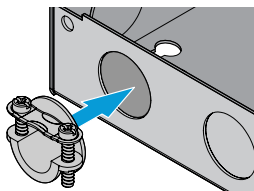


b. Grip K/O with pliers. Bend back and forth until broken off.

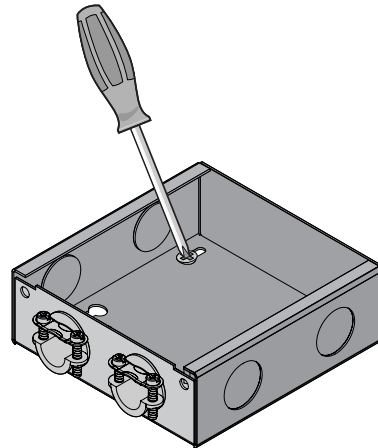
④ ATTACH INCLUDED 1/2" NM (NON-METALLIC) CABLE STRAIN RELIEF OR OTHER FITTING FOR CONDUIT ACCESS.

Additional fittings for BX cable, flexible conduit and rigid conduit must be purchased at local hardware store.

J-Box actual inner KO diameter fits 1/2" fittings.

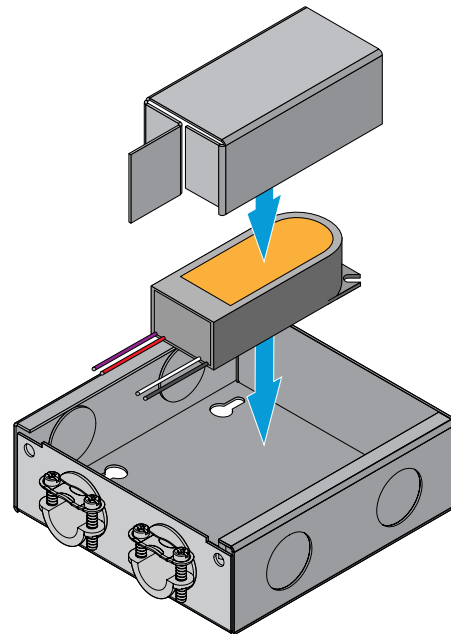


⑤ MOUNT BOX TO SURFACE WITH 4X SCREWS.



Mount J-Box to a sturdy surface in a position where it can be easily located and accessed for servicing and troubleshooting.

⑥ PLACE DRIVER INTO J-BOX.



INSTALLATION CONT.

7 WIRE DRIVER TO AC INPUT AND LOW VOLTAGE LOAD.

WARNING! SYSTEM DIAGRAM NOTE!

Each compatible LED driver has a unique System Diagram and color-coded wires. Please see each LED driver, luminaire (tape light, puck light, etc.), and control installation guide for System Diagrams, connections and wire colors. Pictured below is a Traditional ON/OFF Switching system. This is for reference only and does not apply to every driver.

Wire LED Driver. Ensure main power is OFF.

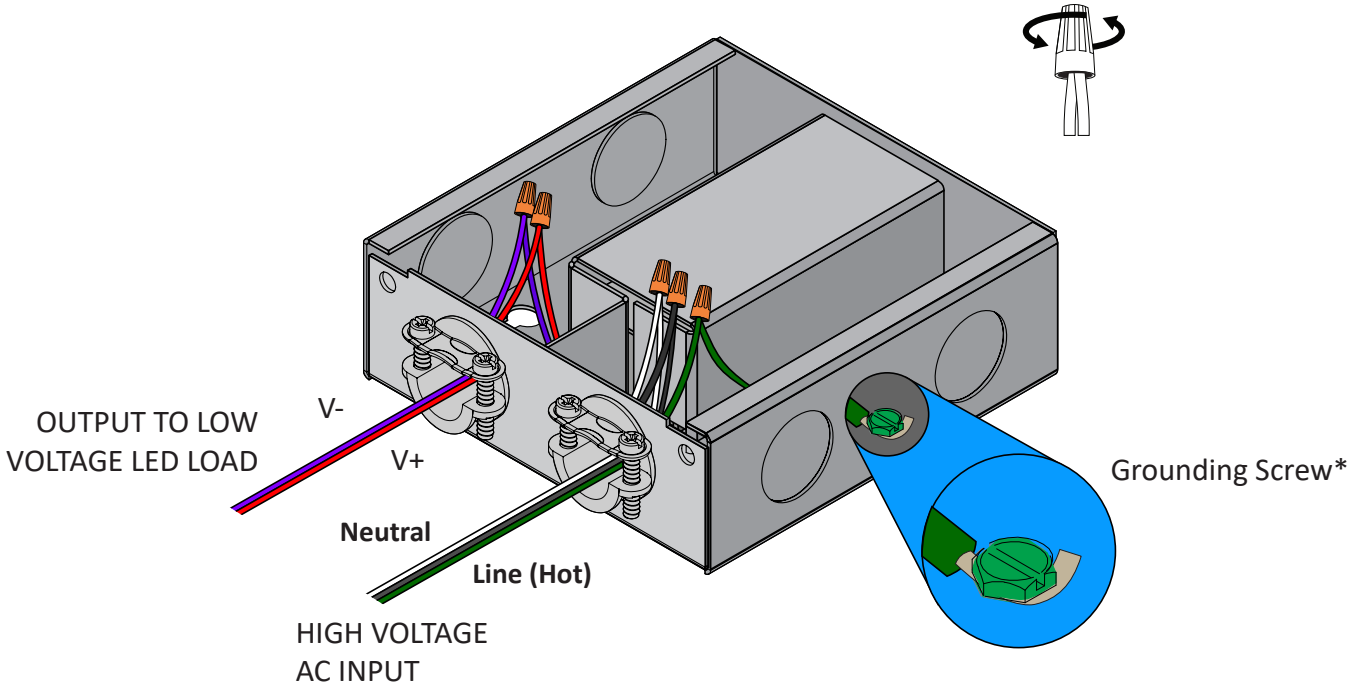
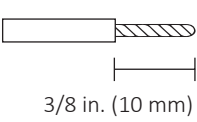
- 1. GND*: Attach to J-Box and to Primary Ground
- 2. Neutral: To Primary High Voltage Neutral
- 3. Line (Hot): To Primary High Voltage Line Hot
- 4. V+: To Low Voltage Load V+
- 5. V-: To Low Voltage Load V-

Wire Combination Range

600V Max
22 to 14 AWG
Min. (1) #18 & (2) #20
Max. (2) # 14

Wire Combination Range (mm)

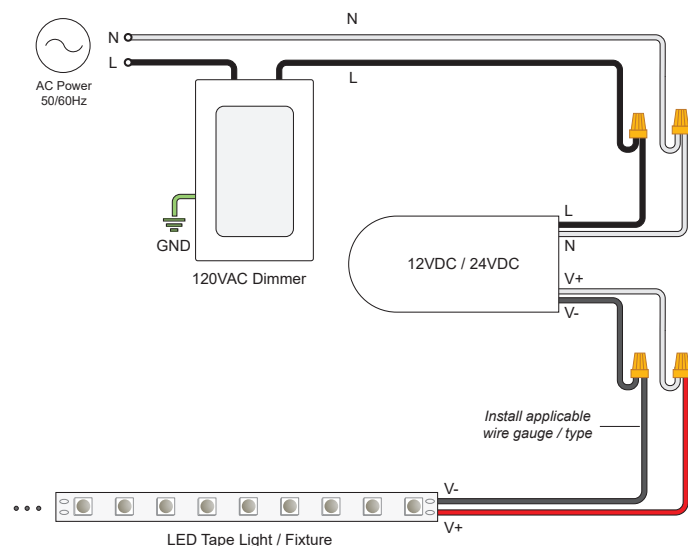
600V Max
0.34mm² to 2.5mm²
Min. (1) 0.75mm² w/ (1) 0.50mm²
Max. (4) 1.5mm² w/ (1) 0.50mm²



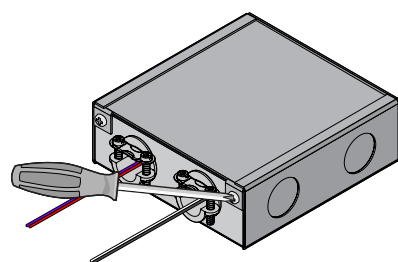
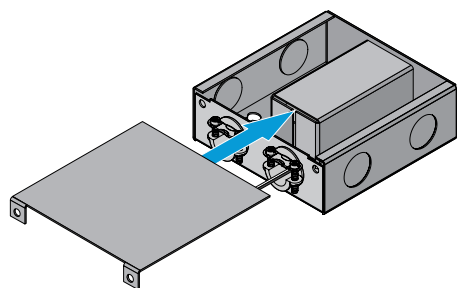
* LED Driver and J-Box must be grounded in accordance with local and national electrical codes. Ground the LED Driver and J-Box with the included Green Grounding Screw. Some compatible LED drivers are Class II certified and do not require a FG (Fault Ground Connection). Refer to the LED driver label and installation guide for more information.

INSTALLATION CONT.

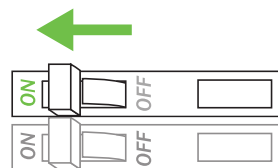
DIMMER SYSTEM DIAGRAM



8 FINISH ASSEMBLY.



9 TURN POWER ON AT CIRCUIT BREAKER.



SYSTEM WORKING IMPROPERLY?

Turn power OFF at circuit breaker and verify all connections. Review SYSTEM DIAGRAMS and TROUBLESHOOTING on LED Driver, Luminaire, and Control Installation Guides.

TROUBLESHOOTING

For System Troubleshooting see individual LED Driver, Luminaire, and Control Installation Guides.