LO-PRO JUNCTION BOX FOR MIKRODIM

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

SUPPLIED ACCESSORIES

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

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.

SAVE THESE INSTRUCTIONS
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.).

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.

ATTACH INCLUDED 1/2” NM (NON-METTALIC) 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.

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.

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−

<table>
<thead>
<tr>
<th>Wire Combination Range</th>
<th>Wire Combination Range (mm)</th>
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<tbody>
<tr>
<td>600V Max</td>
<td>600V Max</td>
</tr>
<tr>
<td>22 to 14 AWG</td>
<td>0.34mm² to 2.5mm²</td>
</tr>
<tr>
<td>Min. (1) #18 &amp; (2) #20</td>
<td>Min. (1) 0.75mm² w/ (1) 0.50mm²</td>
</tr>
<tr>
<td>Max. (2) # 14</td>
<td>Max. (4) 1.5mm² w/ (1) 0.50mm²</td>
</tr>
<tr>
<td></td>
<td>3/8 in. (10 mm)</td>
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</tbody>
</table>

* 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**

![Dimmer System Diagram](image)

**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.

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**FINISH ASSEMBLY.**

1. Slide cover into Junction Box
2. Fasten cover to Junction Box.

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**TURN POWER ON AT CIRCUIT BREAKER.**