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LIGHTING

®

**MPT2 SERIES
MPT2-RT MONOPOINT
REMOTE POWER SUPPLY**
INSTALLATION INSTRUCTIONS

SCAN QR CODE FOR INSTRUCTIONS

WARNING: Read and understand these instructions completely before installation. To be installed by qualified electricians only. Products should be installed in accordance with these instructions, local electrical codes, and the National Electric Code (NEC).These products may represent a possible shock or fire hazard if improperly installed.

CAUTION: Disconnect power at circuit breaker or fuse panel before installation or servicing. Always allow LED assembly to cool before servicing. Do not connect or disconnect LED lamp module wire connector when fixture is energized as this may result in permanent damage to the LED. Do not install where insulation or ambient temperatures will exceed maximum values noted in product specifications. See www.8lighting.com for current product specifications.

NOTE: Number Eight Lighting fixtures are designed to meet the latest NEC requirements and are listed in full compliance with UL standards. Before attempting installation, check your local electrical code which sets the wiring standards and installation requirements for your locality and should be understood before starting work.

SAVE THESE INSTRUCTIONS.

TABLE OF CONTENTS

PAGE

INSTALLATION INSTRUCTIONS - MPT2-RT-2R/S

For Remote Power Supply Options with 2-1/2" Backplate

IMPORTANT:
- Installation must be by a qualified electrician only.
- Verify correct dimming system, LED type, power supply type and input supply requirements.
- Always allow LED assembly to cool before servicing.
- Do not install where insulation or ambient temperature will exceed maximum values noted in product specifications.
- See www.8lighting.com for current product specifications.
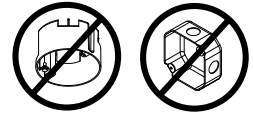
MPT2-RT-2R/S Install and Adjust

STEP 1 Verify suitable mounting location and blocking requirements. Fixture does not mount to standard junction box - **FIG 1.1**.

STEP 2 Wire remote power supply according to wiring instructions shown on proceeding pages.

STEP 3 Drill 3/4" hole at fixture location through blocking or suitable surface. Route Class 2 wiring from remote power supply to fixture location and pull through hole - **FIG 1.4**.

STEP 4 Install Mounting Bracket after making wire connections. Position Fixture Backplate as desired & tighten set screw in Backplate - **FIG 1.3**.

STEP 5 Adjustment - Remove Housing from Heat Sink as shown & remove Accessory Ring to remove or install accessories. Loosen set screws slightly (DO NOT remove) with Hex Keys provided to adjust head tilt or rotation as shown. Lock position by tighting set screw - **FIG 1.2** & **1.3**.

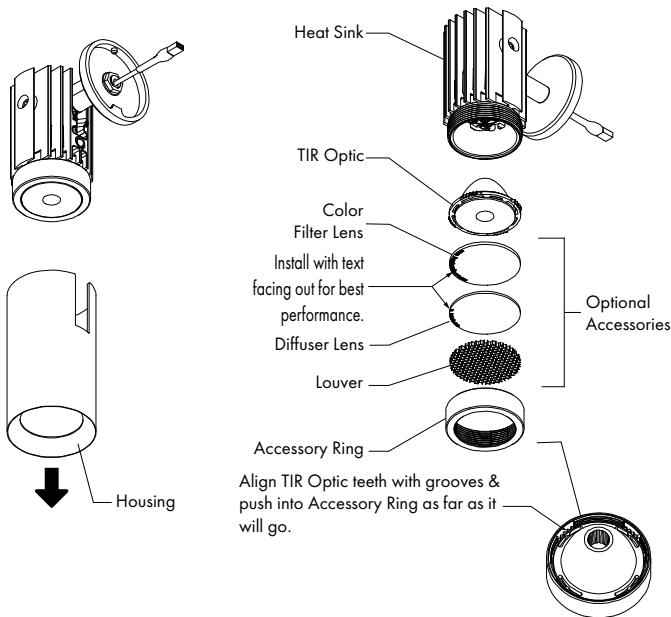Does not use a junction box.

FIG 1.1

Heat Sink

TIR Optic

Color Filter Lens

Install with text facing out for best performance.

Diffuser Lens

Louver

Optional Accessories

Accessory Ring

Align TIR Optic teeth with grooves & push into Accessory Ring as far as it will go.

Housing

FIG 1.2 Lens Assembly & Accessories

5/64" Hex Key

9/64" Hex Key

Housing must be removed to access side adjustment screw.

FIG 1.3 Fixture Adjustment

Mounting Bracket

To Remote Power Supply (refer to wiring diagrams).

5/64" Hex Key

3-1/2" Blocking Required for Mounting Bracket.

Connect Black & Red Wires

2x #8 Flat head screws (not included) type & length to suit mounting surface.

Backplate

Push all wire connections through center of Mounting Bracket.

In-Line connectors

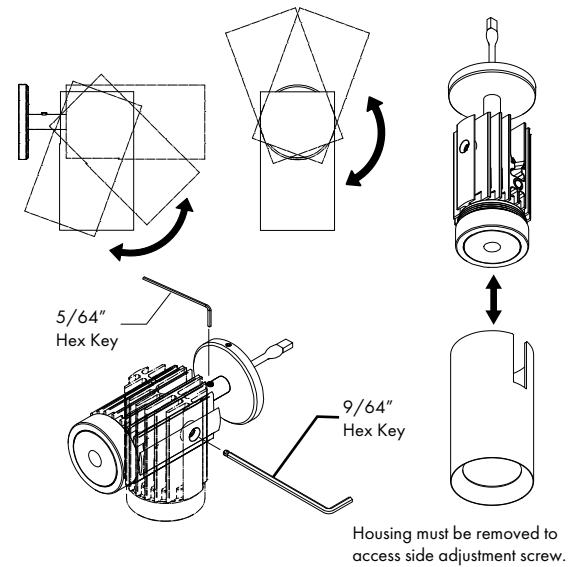Use Splice Connectors for Red & Black wires.

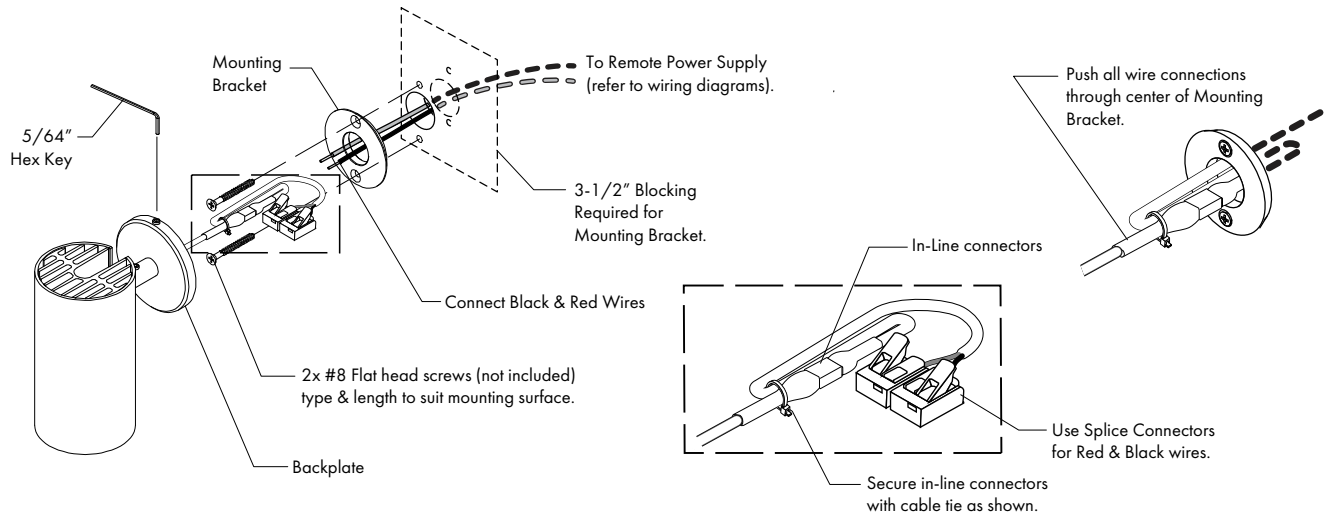Secure in-line connectors with cable tie as shown.

FIG 1.4 Complete Wiring & Install Fixture

INSTALLATION INSTRUCTIONS - MPT2-RT-4R/S

For Remote Power Supply Options with 4" Backplate

IMPORTANT:
- Installation must be by a qualified electrician only.
- Verify correct dimming system, LED type, power supply type and input supply requirements.
- Always allow LED assembly to cool before servicing.
- Do not install where insulation or ambient temperature will exceed maximum values noted in product specifications.
- See www.8lighting.com for current product specifications.

MPT2-RT-4R/S Install and Adjust

STEP 1 Verify suitable mounting location, junction box and blocking requirements - **FIG 2.1**.

STEP 2 Wire remote power supply according to wiring instructions on **Pages 3-5**.

STEP 3 For installations without a junction box, drill 3/4" hole at fixture location and pull through blocking or suitable surface, Route Class 2 wiring from remote power supply to fixture location and pull through 3/4" hole - **FIG 2.4**.

STEP 4 Install Mounting Bracket after making wire connections. Position Fixture Backplate as desired & tighten set screw in Backplate - **FIG 2.3** & **2.4**.

STEP 5 Adjustment - Remove Housing from Heat Sink as shown & remove Accessory Ring to remove or install accessories. Loosen set screws slightly (DO NOT remove) with Hex Keys provided to adjust head tilt or rotation as shown. Lock position by tighting set screw - **FIG 1.2** & **1.3**.

Optional 4" x 1-1/2" deep junction box with 4" Round x 1/2"(min) deep mud-ring for **REMOTE** power supply options with 4" Backplate.
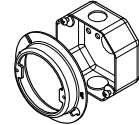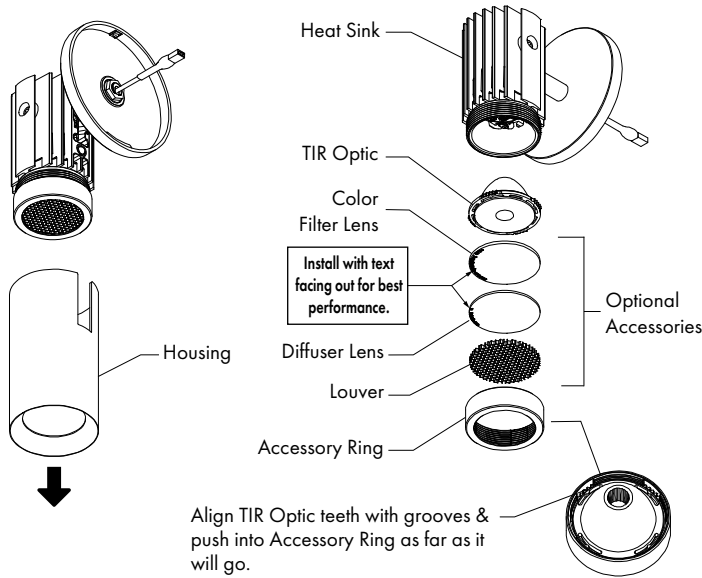

FIG 2.1 Junction Box Type-Optional

Heat Sink

TIR Optic

Color Filter Lens

Install with text facing out for best performance.

Optional Accessories

Housing

Diffuser Lens

Louver

Accessory Ring

Align TIR Optic teeth with grooves & push into Accessory Ring as far as it will go.

FIG 2.2 Lens Assembly & Accessories

5/64" Hex Key

9/64" Hex Key

Housing must be removed to access side adjustment screw.

FIG 2.3 Fixture Adjustment

Class 2 Supply Wires (by installer)

Optional Junction Box & Mud Ring for Remote Power Supply Options.

Mounting Bracket for 4" Backplate

In-Line connectors

4" Backplate (**MPT2-4S** shown)

Secure in-line connectors with cable tie as shown.

Use Splice Connectors for Class 2 Wires from Remote Power Supply

Class 2 Supply Wires (by Installer)

No Junction Box

Mounting Bracket for 4" Backplate

2x #8 Pan/Round Head screws (not included) type & length to suit mounting surface. For installations without a junction box & mud ring, provide suitable blocking for Mounting Bracket and fasteners.
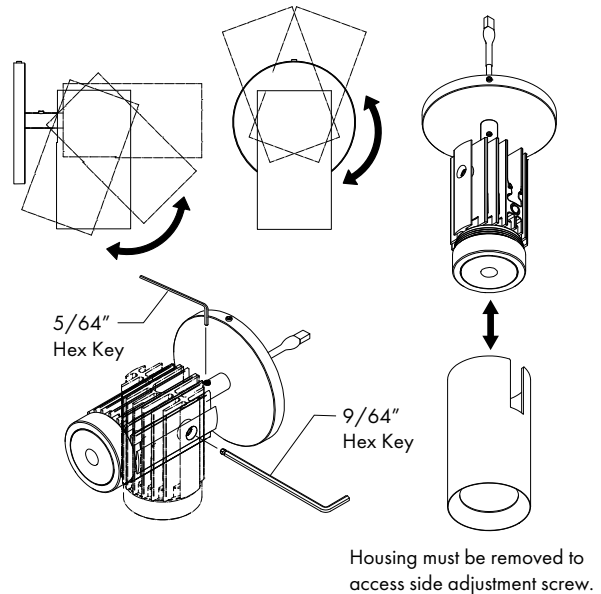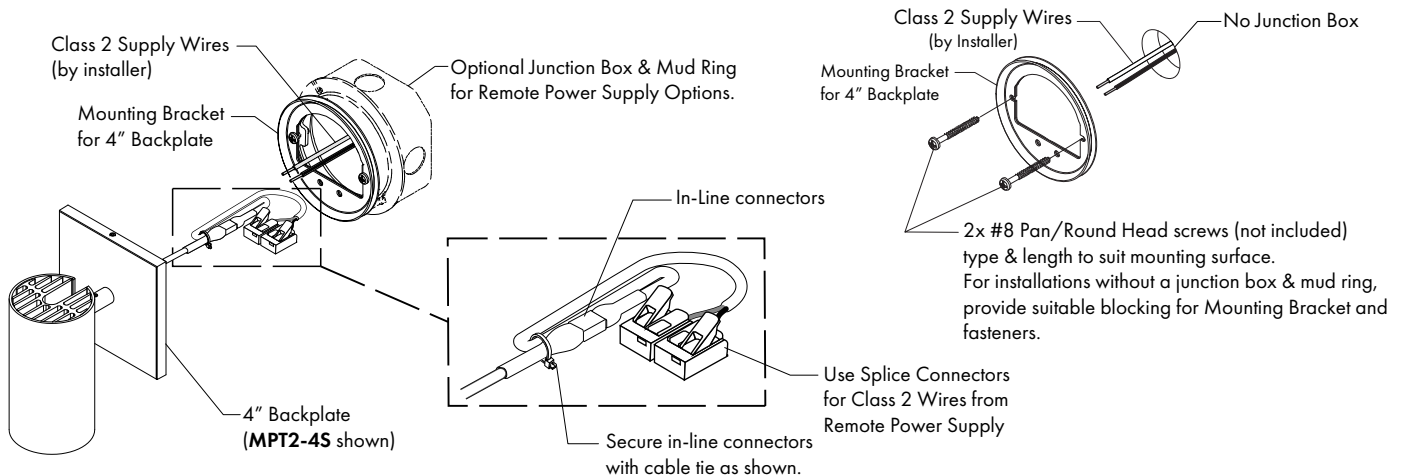
FIG 2.4 Wire & Install Fixture (4" Backplate) - With & Without Junction Box

WIRING INSTRUCTIONS

For PR1/EL1/EL1-01/EL2/EL2-01/LU2-M-RT Remote Power Supply Options

STEP 1 Verify correct power supply model (see label on cover plate), LED type (see label on fixture), wire length and gauge (see chart below) and input requirements (see label on driver) - **FIG 3.1** & **3.2**.
Note: For compatible dimmers see: www.8lighting.com/resources-downloads.
STEP 2 Install & wire remote power supply assembly - **FIG 3.1** & Wiring Diagrams on **Pages 4-5**.
STEP 3 Connect fixture supply wires to Class 2 wiring - **FIG 1.4** & **2.4** on **Pages 1-2**.
STEP 4 Push fixture supply connections completely behind Mounting Bracket - **FIG 1.4** & **2.4** on **Pages 1** & **2**.
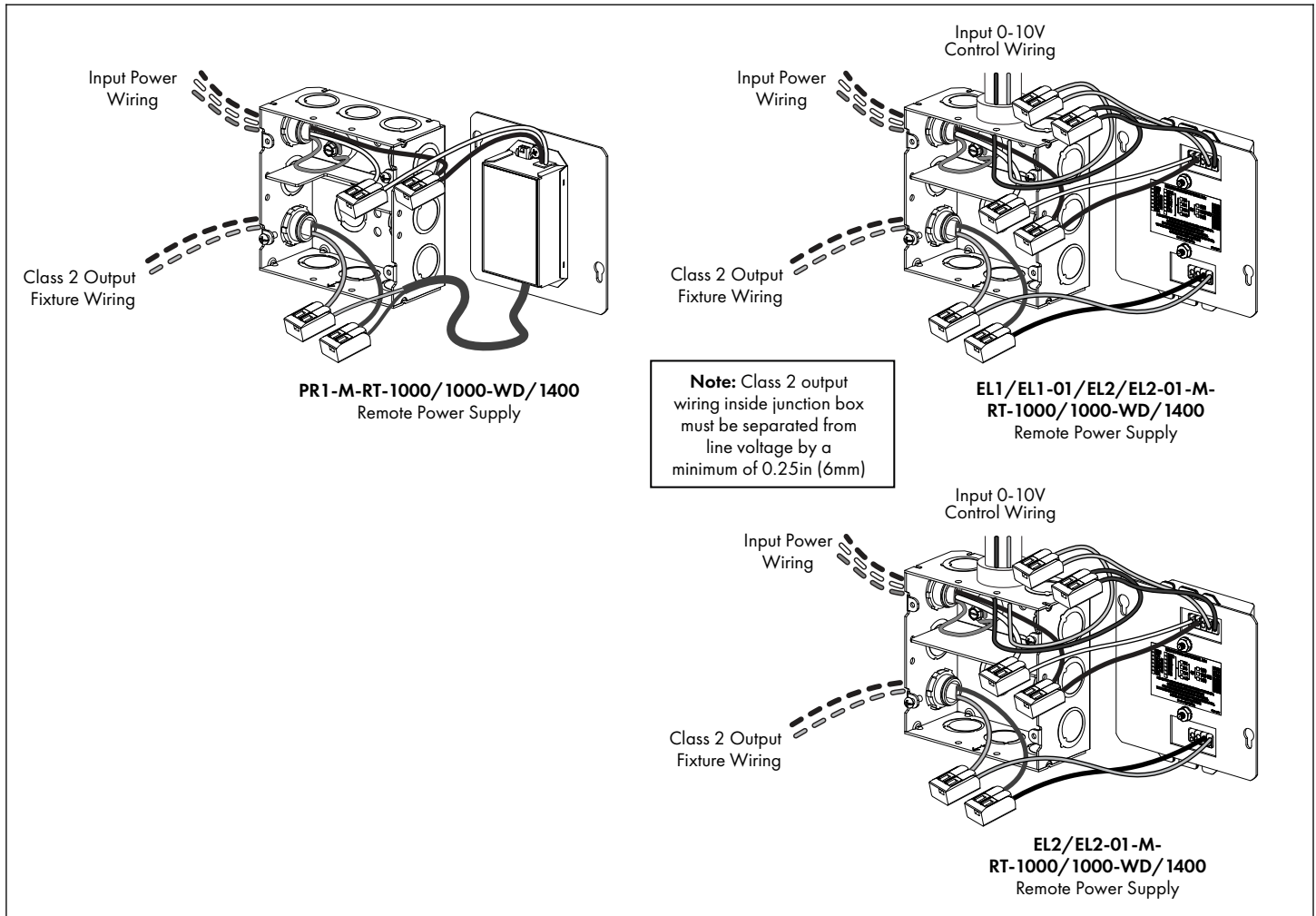
Input Power Wiring

Class 2 Output Fixture Wiring

PR1-M-RT-1000/1000-WD/1400
Remote Power Supply

Input 0-10V Control Wiring

Input Power Wiring

Class 2 Output Fixture Wiring

Note: Class 2 output wiring inside junction box must be separated from line voltage by a minimum of 0.25in (6mm)

EL1/EL1-01/EL2/EL2-01-M-RT-1000/1000-WD/1400
Remote Power Supply

Input 0-10V Control Wiring

Input Power Wiring

Class 2 Output Fixture Wiring

EL2/EL2-01-M-RT-1000/1000-WD/1400
Remote Power Supply

FIG 3.1 Wire & Install Remote Power Supply

Maximum REMOTE Power Supply-to-LED Light Engine Wire Length			
Power Supply Model			
PR1/EL1/EL1-01/EL2/EL2-01-M-RT	**LU2-M-RT**	**LU2-M-RT**	**Wire Gauge**
1000/1000-WD/1400	**1000-WD**	**1000**	
8 ft (2.5 m)		4 ft (1.2 m)	24 AWG (0.2mm^2)
13 ft (4 m)		6 ft (1.8 m)	22 AWG(0.34mm^2)
20 ft (6 m)		10 ft (3 m)	20 AWG (0.5 mm^2)
30 ft (9 m)		15 ft (4.5 m)	18 AWG (0.75 m^2)
35 ft (10.5 m)		25 ft (7.5 m)	16 AWG (1.5 mm^2)
50 ft (15 m)		40 ft (12m)	14 AWG (2.5 mm^2)
100 ft (30 m)		60 ft (18 m)	12 AWG (4.0 mm^2)
Wire Type: Stranded Class 2 wire (supplied by others)			

FIG 3.2 Remote Power Supply Class 2 Wire Length

WIRING DIAGRAMS

For PR1/EL1/EL1-01/EL2/EL2-01 Remote Power Supply Options

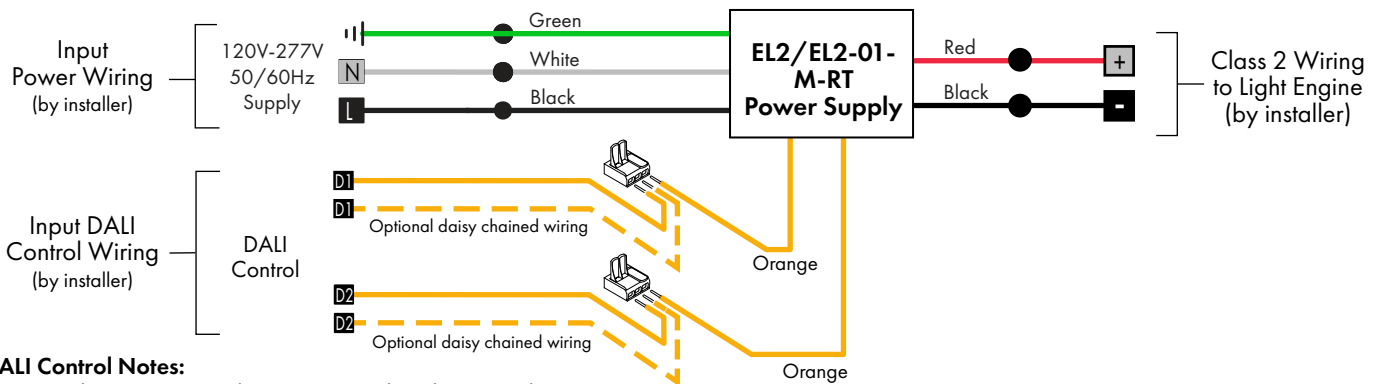### PR1-M-RT-1000/1000-WD/1400 - REMOTE PHASE CONTROL

Input Power Wiring (by installer)

120V/60Hz Supply

Green
White
Black

N
L

PR1-M-RT Power Supply

Red
Black

+
–

Class 2 Wiring to Light Engine (by installer)

Forward or Reverse Phase Dimmer w/ Neutral Connection (as required)
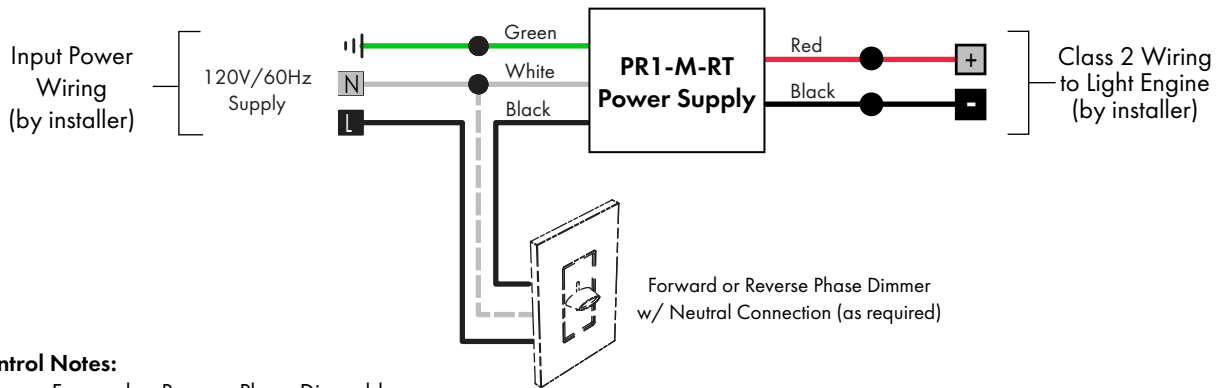
Phase Control Notes:
PR1 drivers are Forward or Reverse Phase Dimmable

EL1/EL1-01-M-RT-1000/1000-WD/1400 - REMOTE 0-10V CONTROL

Switched Input Power Wiring (by installer)

120V-277V 50/60Hz Supply

Green
White
Black

N
L

EL1/EL1-01-M-RT Power Supply

Red
Black

+
–

Class 2 Wiring to Light Engine (by installer)

Input 0-10V Control Wiring (by installer)

0-10V Control

+
+
Optional daisy chained wiring

Purple

–
–
Optional daisy chained wiring

Pink
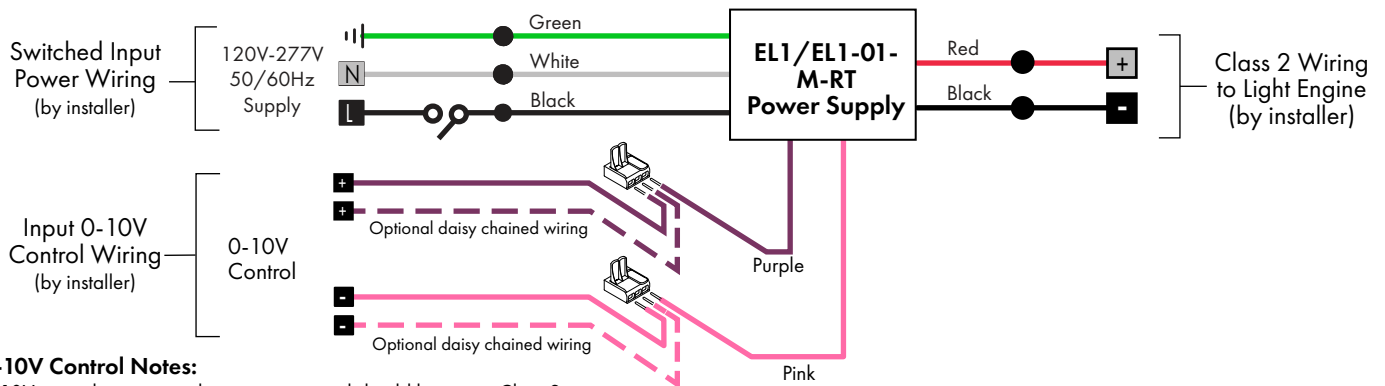
0-10V Control Notes:
0-10V control wiring IS polarity sensitive and should be run as Class 2.
300' is the maximum control wiring run length to reduce EMI susceptibility and voltage drop. Voltage drop should be no greater than 0.3V.

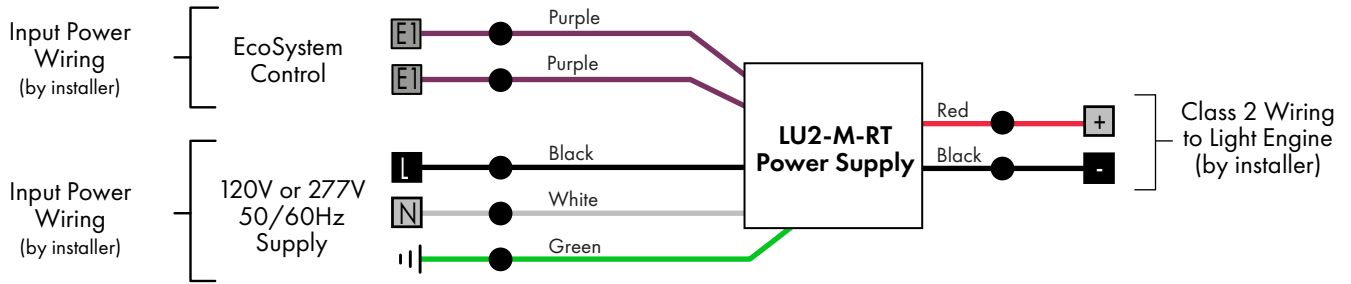### EL2/EL2-01-M-RT-1000/1000-WD/1400 - REMOTE DALI CONTROL

Input Power Wiring (by installer)

120V-277V 50/60Hz Supply

Green
White
Black

N
L

EL2/EL2-01-M-RT Power Supply

Red
Black

+
–

Class 2 Wiring to Light Engine (by installer)

Input DALI Control Wiring (by installer)

DALI Control

D1
D1
Optional daisy chained wiring

Orange

D2
D2
Optional daisy chained wiring

Orange

DALI Control Notes:
DALI control wiring IS NOT polarity sensitive and can be run as Class 1 or 2.
Up to 64 **EL2** power supplies can be daisy chained per DALI control loop. Maximum control wiring run length is 1000'.

WIRING INSTRUCTIONS

For LU2-M-RT-1000/1000-WD Remote Power Supply Options

LU2-M4-RT-1000/1000-WD - REMOTE ECOSYTEM CONTROL

Input Power Wiring (by installer) — EcoSystem Control

E1 — Purple

E1 — Purple

Input Power Wiring (by installer) — 120V or 277V 50/60Hz Supply

L — Black

N — White

⏚ — Green

LU2-M-RT Power Supply

Red — +

Black — -

Class 2 Wiring to Light Engine (by installer)

Lutron EcoSystem Control Notes:
Up to 64 **LU2** power supplies can be daisy chained per EcoSystem control loop. Maximum control wiring run length is 1000'.
For additional information contact LED Center of Excellance at 1.877.346.5338 or LEDs@lutron.com.

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