HAWORTH

Tailored Solutions

Integrated Light – August 2025



Summary of Updates

- The table below lists updates and addendums added since the original version was created.

Date	Action	Pages	Description

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Overview

Lighting can transform the way a space feels and functions. Whether it is to provide focused illumination where it's needed most, or as ambient lighting to create a soft, overall glow that defines the mood of the space and helps reduce visual fatigue.

Our Tailored Solutions Integrated Task Light offering is designed to support easy integration with the Masters Series Open Sided and L Shelves while also having the flexibility to support integration with other products and the implementation of additional features in the future.

At the heart of the system are three coordinated component kits that are easy to install and work together to support a wide range of design and budget needs.

- Light Assembly
- Power Supply Kit
- Controller

Together, these components form a modular system that's easy to configure and scale. This flexibility allows designers and facility planners to meet a variety of layout and lighting goals—without overextending budgets or compromising on quality for current and future layout needs.

New Integrated Light offering is a 24V system ONLY.

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Catalog Equivalent Breakdown

As a Tailored Solutions product, each light component is ordered with TS00-XXXX catalog numbers.

The following catalog equivalent logic has been developed to support quick and easy searching for existing TS numbers through tailoredsolutions.com.

If you find the configuration you are looking for, there is no need to submit an inquiry. If you do not find an existing TS for your required configuration, request a call or submit a request and a member of our tailored solutions team will be happy to assist you.

Light Assemblies

L U I L - I R # - # M 35 S N 0

- **Product Category** (L) Lighting
- **Type** (U) Univeral
- **Application Type** (I) Integrated Task
- **Component Type** (L) Light Assembly
- **Series** (I) Infinex
- **Profile** (R) Recessed
- **Length** 16-188 (I8) 1 in.Increments
- **Voltage** (24) 24V
- **Output Wattage** (M) Medium
- **Color Tempurature** (27) 2700K (30) 3000K (35) 3500K
- **End Configuration** (S) Stand Alone (M) Modular
- **Integrated Controller** (N) No
- **Dimmer Type** (0) Dimmer Only

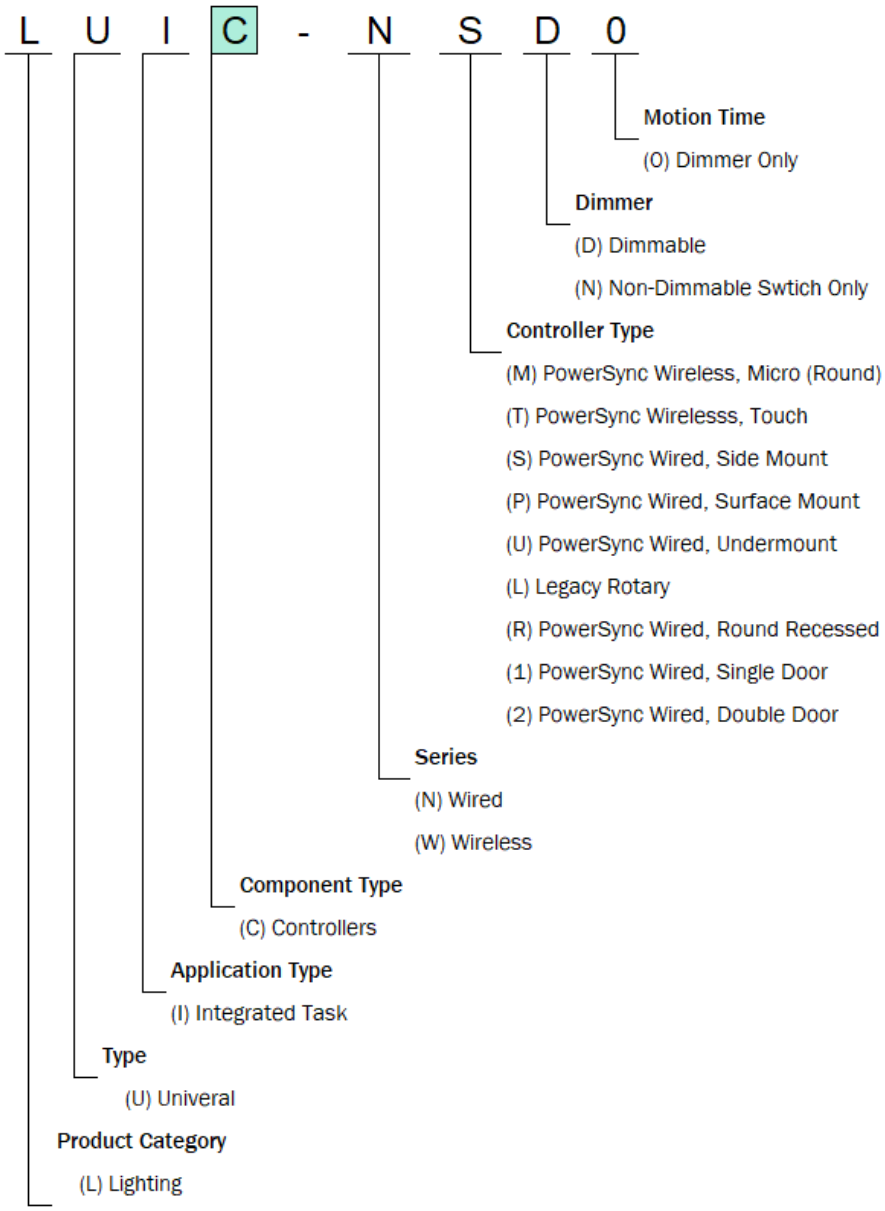
Power Supplies

L U I P - 24 CC

- **Product Category** (L) Lighting
- **Type** (U) Univeral
- **Application Type** (I) Integrated Task
- **Component Type** (P) Power Supply Kit
- **Voltage** (24) 24V
- **Accessory Type** (CC) Wired Controller, Central Control Adaptor (RS) Wireless Controller, Single Color Reciever (NA) No Accessory for use with Rotary Controller

Catalog Equivalent Breakdown

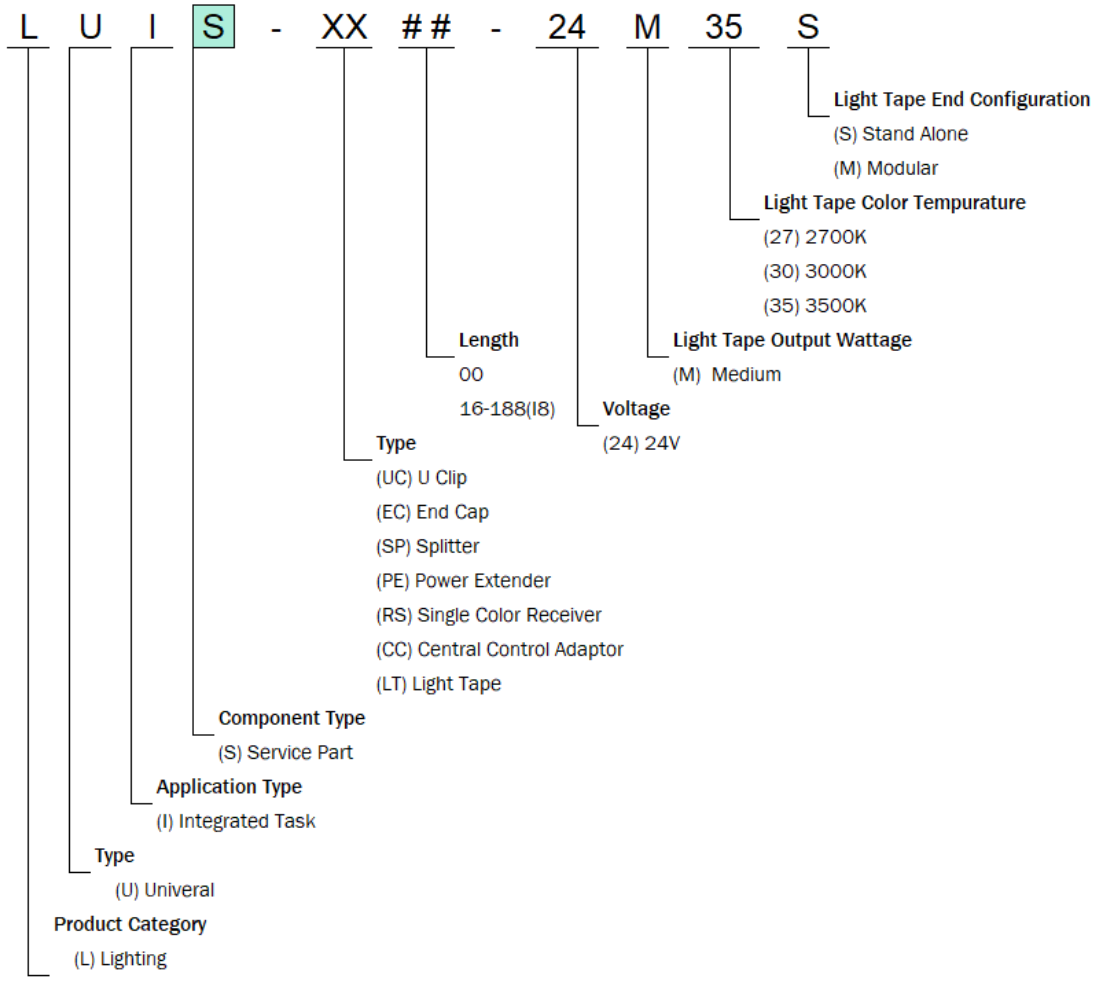
Controllers



Catalog Equivalent Breakdown

Service Parts and Accessories

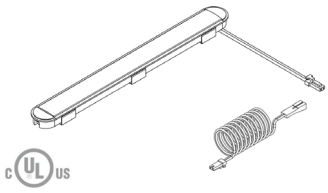
- Functional options do not apply to (UC) U Clips and (EC) End Caps.
- Output Wattage, Color Temperature and End Configuration Options only apply to (LT) Light Tape.



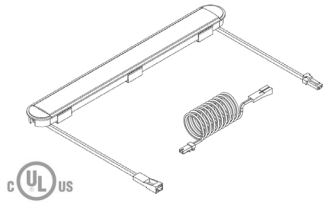
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Components
Light Assembly

Light Assembly



Stand Alone Light assembly with 96” Power Extender



Modular Light assembly with 96” Power Extender

Features

- Factory assembled for quick and easy install.
  - Assemblies up to 94” (2438.4 mm) will ship fully assembled with light tape, diffuser cap and end caps in place.
  - Assemblies >94” (2438.4 mm) ship as two trim units with single length light tape with factory soldered connections.
- Size: 16” (406.4 mm) to 188” (4775.2 mm) lengths in 1” (25.4 mm) increments x 7/8”W (23mm) x 5/16”H (8mm).
- Designed for recessed mounting with slim 1/16” (2mm) trim profile once installed. Clip mounting design also supports surface mounting.
- Includes 17” (431.8 mm) +/- 2” (50.8mm) starter with male connection with 96” (2438.4 mm) Power Extender.
- Mini Port quick connect heads can be threaded through cutouts as small as 5/16” (8mm) in diameter
- Choice of Individual Stand-Alone Fixture or Modular Fixture. Modular adds a minimum 17” (431.8mm) +/- 2” (50.8mm) link cord to other end to support daisy chain applications.
- Choice of Stain Clear or Black Trim.
- Milk Diffuser Cap.

Specification Tips

- For use with 120-volt, 60 hertz electrical system.
- 24VDC Low Voltage, Class 2 wiring up to 96 watts.
- Wattage: 3 watts per foot.
- Color Temperature: Choice of 2700K, 3000K, 3500K.
- CRI offers excellent color-rendering.
- Compatible with separately specified power supplies and controllers.

To Order, Specify

1) TS Product Number
2) Trim Color
   - TR1-BL, Black
   - TR1-SC, Stain Clear
3) Diffuser Color
   - TR1-M, Milk

- Haworth 1 Pc Light Assemblies.
- Haworth 2 Pc Light Assemblies.

Tip

- Light assembly length refers to the assembly only. Required length is dependent on the product the light is to be integrated with and how it will function in its application.
- Lights are single color. Temperature required must be defined in your inquiry request.

REF

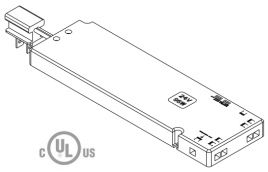
- Control Schematics Section.
- Open Sided Shelf Integration Section.
- Spec Sheet.

Components

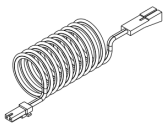
Power Supply Kits

Power Supply Kit for Wired Controllers

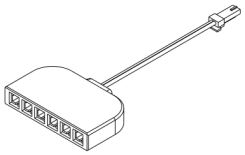
LUIP-24CC



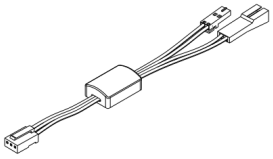
Power Supply, 24V, 96W
Included Barrel End Adaptor not illustrated



Power Extender, 96”



Mini Port Splitter



Central Control Port Converter



Central Control Link Cord

Features

- Kit Includes:
  - (1) 24VDC, 96W, Plug-In Power Supply
  - (1) 24VDC, Starter Extension Cord, 96” (2438.4mm)
  - (1) 24VDC, Splitter, (6) Mini Power Ports
  - (1) Central Control Port Converter
  - (1) Central Control Link Cord, 79-in (2006.6mm)
- 72” (1828.8mm) cord features a trim to length plug head design, allowing the plug head to be removed and trimmed for wire management.
- Included Power Extender, Splitter and Link Cord supports the majority of single and multiple stand alone or modular light assembly configurations.
- Multiple molded 3Amp ports support connection of multiple light assemblies up to power supply maximum wattage.
- Control port adapter allows for control of multiple lights with a single controller.

Specification Tips

- For use with 120-volt, 60 hertz electrical system.
- For use with separately specified Tailored Solution LUIC PowerSync Wired Controllers and LUIL light assemblies.
- 2.75”W (69.9mm) x 9.0”D (228.6mm) x 0.75”H (19.1mm).

- PowerSync Wired Control.
- Trimming 120V Power Cord.

- Centralized Control Ports (Pink Ports) cannot be used with the Rotary Controller.

REF

- Control Schematics Section.
- Wattage Limit Requirements Section.
- Spec Sheet.

To Order, Specify

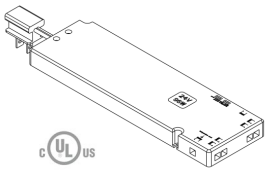
1) TS00-6KGZ

Components

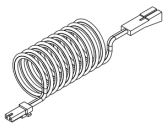
Power Supply Kits

Power Supply Kit for Wireless Controllers

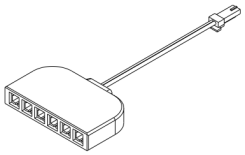
LUIP-24RS



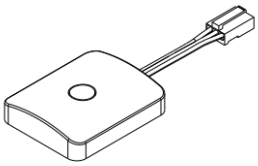
Power Supply, 24V, 96W
Included Barrel End Adaptor not illustrated



Power Extender, 96”



Mini Port Splitter



Single Color Wireless Receiver



Central Control Link Cord

Features

- Kit Includes:
  - (1) 24VDC, 96W, Plug-In Power Supply
  - (1) 24VDC, Starter Extension Cord, 96” (2438.4mm)
  - (1) 24VDC, Splitter, (6) Mini Power Ports
  - (1) Single Color Wireless Receiver
  - (1) Central Control Link Cord, 79-in (2006.6mm)
- 72” (1828.8mm) cord features a trim to length plug head design allowing the plug head to be removed and trimmed for wire management.
- Included Power Extender, Splitter and Link Cord support majority of single and multiple stand alone or modular light assembly configurations
- Multiple molded 3Amp ports support connection of multiple light assemblies up to power supply maximum wattage.
- Control port adapter allows for control of multiple lights with a single controller.

Specification Tips

- For use with 120-volt, 60 hertz electrical system.
- For use with separately specified Tailored Solution LUIC PowerSync Wireless Controllers and LUIL light assemblies.
- 2.75”W (69.9mm) x 9.0”D (228.6mm) x 0.75”H (19.1mm).

- PowerSync Wireless Control.
- Trimming 120V Power Cord.

- Centralized Control Ports (Pink Ports) cannot be used with the Rotary Controller.

REF

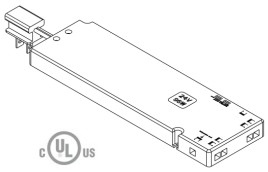
- Control Schematics Section.
- Wattage Limit Requirements Section.
- Spec Sheet.

To Order, Specify

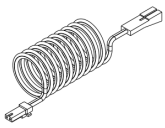
1) TS00-6KH0

Components
Power Supply Kits

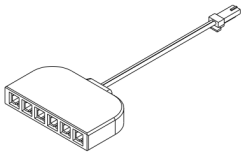
Power Supply Kit for Rotary Controller
LUIP-24NA



Power Supply, 24V, 96W
Included Barrel End Adaptor not illustrated



Power Extender, 96”



Mini Port Splitter

Features

- Kit Includes:
  - (1) 24VDC, 96W, Plug-In Power Supply
  - (1) 24VDC, Starter Extension Cord, 96” (2438.4mm)
  - (1) 24VDC, Splitter, (6) Mini Power Ports
- 72” (1828.8mm) cord features a trim to length plug head design, allowing the plug head to be removed and trimmed for wire management.
- Included Power Extender and Splitter support majority of single and multiple stand alone or modular light assemblies.

Specification Tips

- For use with 120-volt, 60 hertz electrical system.
- For use with separately specified Rotary Controller (TS00-6KH1) and Tailored Solution LUIL light assemblies.
- 2.75”W (69.9mm) x 9.0”D (228.6mm) x 0.75”H (19.1mm).

To Order, Specify

1) TS00-6SJQ

- Haworth Rotary Dimmer System.
- Trimming 120V Power Cord.

- Centralized Control Ports (Pink Ports) cannot be used with the Rotary Controller.

REF

- Control Schematics Section.
- Wattage Limit Requirements Section.
- Spec Sheet.

Components

Controllers

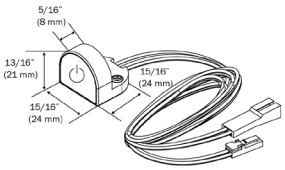
PowerSync Wired Controllers

REF

- Spec Sheet

Side Mount

LUIC-NSD0



Features

- L-shaped design combined with small size make this controller perfect for mounting on the side of a worksurface or shelf.
- Mini connector heads can feed through holes as small as 10mm in diameter.
- Size: 15/16”W (24mm) x 13/16”H (21mm) x 15/16”D (24mm).
- Input Cord: 39” (991mm) / Output Cord: 39” (991mm).
- Supports connection to Power Supply, Light Assembly, Mini Port Splitter or Central Control Adaptor.

Specification Tips

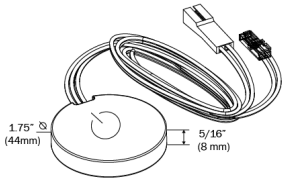
- For use with separately specified Power Supply Kit for Wired Controllers and Light Assembly.

To Order, Specify

1) TS00-6KH5
2) Trim Color
   - TR1-NI, Nickel

Surface Mount

LUIC-NPD0



Features

- Slim design mounts with adhesive tape provides flexibility in mounting locations.
- Mini connector heads can feed through holes as small as 10mm in diameter.
- Size: 1.75”Dia (44mm) x 5/16”H (8mm).
- Input Cord: 39” (991mm) / Output Cord: 39” (991mm).
- Supports connection to Power Supply, Light Assembly, Mini Port Splitter or Central Control Adaptor.

Specification Tips

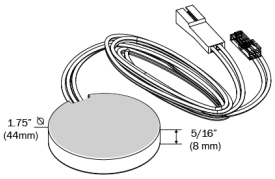
- For use with separately specified Power Supply Kit for Wired Controllers and Light Assembly.

To Order, Specify

1) TS00-6KH6
2) Trim Color
   - TR1-WH, White

Undermount

LUIC-NUN0



Features

- Slim design with adhesive mounting. Can be mounted under or behind surfaces up to 1” (25.4mm).
- Mini connector heads can feed through holes as small as 10mm in diameter.
- 1.75”Dia (44mm) x 5/16”H (8mm).
- Input Cord: 39” (991mm) / Output Cord: 39” (991mm).
- **On/Off touch switching only. Does not support dimming.**
- Supports connection to Power Supply, Light Assembly, Mini Port Splitter or Central Control Adaptor.

Specification Tips

- For use with separately specified Power Supply Kit for Wired Controllers and Light Assembly.

To Order, Specify

1) TS00-6VFC
2) Trim Color
   - TR1-WH, White

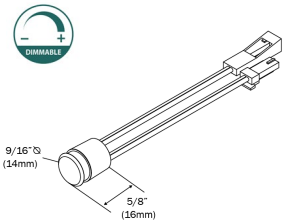
Components

Controllers

PowerSync Wired Controllers Continued

Round Recessed

LUIC-NRD0



Features

- Recessed body provides a seamless appearance.
- 9/16”Dia (14mm) x 5/8”D (14mm) is recessed using an 8/16” (12mm) drill bit.
- Input Cord: 39” (991mm) / Output Cord: 39” (991mm).
- Supports connection to Power Supply, Light Assembly, Mini Port Splitter or Central Control Adaptor.

Specification Tips

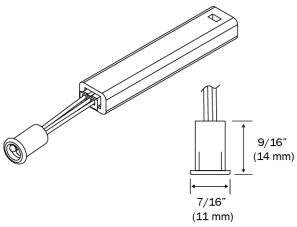
- For use with separately specified Power Supply Kit for Wired Controllers and Light Assembly.
- This controller is cannot be surface mounted.

To Order, Specify

1) TS00-6KH8
2) Trim Color
   - TR1-NI, Nickel

Single Door

LUIC-N1N0





Optional surface mounting clips included

Features

- Sensor for a single door will turn the light on when the door opens and off when the door is closed.
- Can be surface mounted or recessed using a 5/16” (8mm) drill bit through ¾” (19.1mm) thick core.
- 7/16”Dia (11mm) x 9/16”D (14mm)
- Input Cord: 39” (991mm) / Output Cord: 39” (991mm) plus 39” (991mm) lead to the sensor.
- **On/Off Switching only. Does not support dimming.**
- Supports connection to Power Supply, Light Assembly, Mini Port Splitter or Central Control Adaptor.

Specification Tips

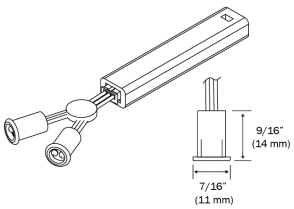
- For use with separately specified Power Supply Kit for Wired Controllers and Light Assembly.

To Order, Specify

1) TS00-6KH9
2) Trim Color
   - TR1-NI, Nickel

Double Door

LUIC-N2N0





Optional surface mounting clips included

Features

- Sensor for two doors will turn the light on when either door opens and off when doors are closed.
- Can be surface mounted or recessed using a 5/16” (8mm) drill bit through ¾” (19.1mm) thick core.
- 7/16”Dia (11mm) x 9/16”D (14mm).
- Input Cord: 39” (991mm) / Output Cord: 39” (991mm) plus 39” (991mm) lead to the sensor.
- **On/Off Switching only. Does not support dimming.**
- Supports connection to Power Supply, Light Assembly, Mini Port Splitter or Central Control Adaptor.

Specification Tips

- For use with separately specified Power Supply Kit for Wired Controllers and Light Assembly.

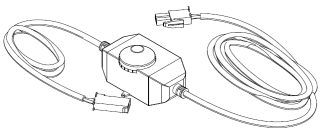
To Order, Specify

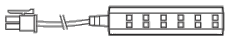
1) TS00-6KHA
2) Trim Color
   - TR1-NI, Nickel

Components
Controllers

Legacy Rotary Controller

Rotary
LUIC-NLD0





AMP Splitter Block



AMP to 3-port Mini Splitter



Male Barrel to Female AMP



Female Barrel to Female AMP

Features
- Dial control supports those who prefer a more tactile and intuitive approach to lighting control.
- Kit Includes:
  - (1) Rotary Dimmer, 24DV, AMP Connectors
  - (1) Power Adapter, AMP to 3-Port Minim Power Connectors
  - (1) Power Adapter, Female Barrel to Female AMP
  - (1) Power Adapter, Male Barrel to Male AMP
  - (1) Black AMP Splitter Block
- 1.25”W (31.8 mm) x 2.5”D (63..5mm) x 1-5/16”H (33.3mm).
- Input Cord: 75” (1905mm) / Output Cord: 10” (254mm)

Specification Tips
- For use with separately specified Power Supply Kit for Rotary Controller and Light Assembly.

- This controller has AMP vs. Mini Port Connectors. They WILL NOT connect to PowerSync components without use of the included adaptors.
- AMP ends WILL NOT fit through shelf wire preps.
- Cannot use the PowerSync Central Control ports.
- Can ONLY be used with the Legacy Barrel adaptor on the power supply.
- On ALERT, this controller will be phased out by the supplier, so it is recommended to standardize on one of the PowerSync controllers.

To Order, Specify
1) TS00-6KH1
2) Trim Color
   - TR1-BL, Black

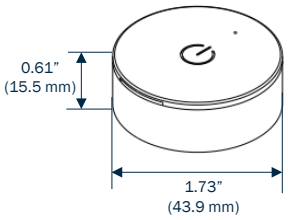
Components
Controllers

PowerSync Wireless Controllers

REF

- Spec Sheet

Micro
LUIC-WMD0

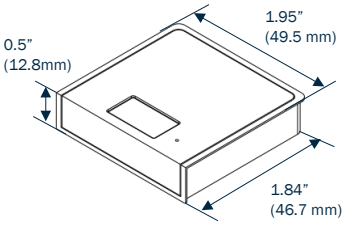


Features
- Pairs to Central Control Wireless Receiver removing the need to hide or manage cords to the controller.
- Supports recessed or surface mount installation.
- CR2032 Battery provides long life.
- Works up to 30 feet (9.1m) from receiver.
- 1.73”W (43.9mm) x 0.61”H (15.5mm).
- Supports connection to Power Supply Light Assembly, Mini Port Splitter or Central Control Wireless Single-Color Receiver.

Specification Tips
- For use with separately specified Power Supply Kit for Wired Controllers and Light Assembly.

To Order, Specify
1) TS00-6KH2
2) Trim Color
   - TR1-BL, Black
   - TR1-NI, Nickel

Touch
LUIC-WTD0



Features
- Pairs to Central Control Wireless Receiver removing the need to hide or manage cords to the controller.
- Supports recessed or surface mount installation.
- CR2032 Battery provides long life.
- Works up to 30 feet (9.1m) from receiver.
- 1.95”W (49.5 mm) x 1.84D” (46.7mm) x 0.5T” (12.8mm).
- Supports connection to Power Supply, Light Assembly, Mini Port Splitter or Central Control Wireless Single-Color Receiver.

Specification Tips
- For use with separately specified Power Supply Kit for Wired Controllers and Light Assembly.

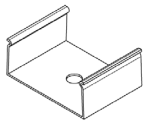
To Order, Specify
1) TS00-6KH3
2) Trim Color
   - TR1-BL, Black
   - TR1-NI, Nickel

Components

Accessories and Service Parts

U-Clips

LUIS-UC00



Features

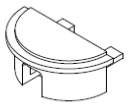
- Package of 4 replacement mounting U-Clips with Screws.

To Order, Specify

1) TS00-6KUE

End Caps

LUIS-EC00



Features

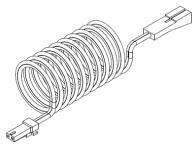
- Package of 2 end caps for Light Assembly.

To Order, Specify

1) TS00-6KUF
2) Trim Color
   - TR1-SC, Grey
   - TR1-BL, Black

Power Extender

LUIS-PE00-24



Features

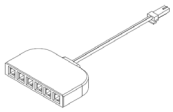
- Single 24VDC 48” (1219.2mm) Power Extender.
- Provides additional length as required to connect power supply and light assembly.
- Can be used in place of 96” (2438.4 mm) cord included with power supply.

To Order, Specify

1) TS00-6KUH

Mini Port Splitter

LUIS-SP00-24



Features

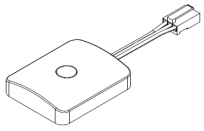
- 24VDC Mini Port Splitter.
- To split single port to six mini ports for connection of multiple lights.

To Order, Specify

1) TS00-6KUG

Central Control Wireless Receiver

LUIS-RS00-24



Features

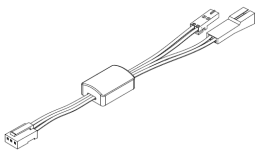
- Connects to Central Control port in power supply for centralized control of multiple light assemblies with a single wireless controller.

To Order, Specify

1) TS00-6KUJ

Central Control Adaptor

LUIS-CC00-24



Features

- Connects to Central Control port in power supply for centralized control of multiple light assemblies with a single wired controller.

To Order, Specify

1) TS00-6KUK

Components

Accessories and Service Parts

Light Tape

LUIS-LTXX-24MXX-X



Features

- Single length replacement light tape.
- Light tape ships cut to length with quick connect ends.

Specification Tips

- For use with 120-volt, 60 hertz electrical system.
- 24VDC Low Voltage, Class 2 wiring up to 96 watts.
- Wattage: 3 watts per foot.
- Use Catalog Equivalent Logic to search for pre-existing Tailored Solutions.
- When submitting an inquiry specify:
  - Light Assembly Length
  - Color Temperature: Choice of 2700K, 3000K, 3500K
  - End Configuration: Standard Alone or Modular

To Order, Specify

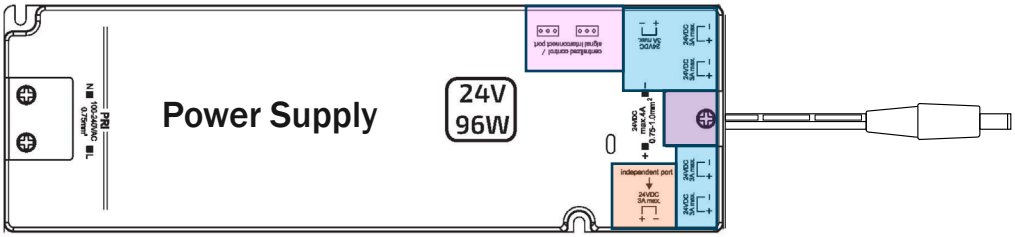
1) TS Product Number

Power Supply Details

Overview of Power Supply Ports

Overview of Power Supply Ports

Each power supply has four different types of connection ports; Centralized Control Ports, Mini Ports, Independent Control Port and Legacy Barrel AMP Adaptor. The use of each depends on the application needs for your lighting layouts.



Centralized Control Ports

Each power supply has (2) two centralized control ports. These ports are used for centralized control of switching. You can connect either a **single** Central Control Adaptor (for wired controllers) or Wireless Receiver (used for wireless controllers) for centralized control on lights connected to the mini ports and/or link cords. Link cords support applications where a single light group is desired, but more than 1 power supply based on the total wattage of light assemblies is required by allowing switching to be linked between the power supplies. It DOES NOT link power; only switching.

- Central Control Ports CANNOT be used with the Rotary Controller.
- Maximum of (10) ten power supplies can be linked together.
- Each power supply can only support connection of a **single** adaptor or wireless receiver. Connecting more than a single controller component (Adaptor or Receiver) will result in system failure.

Tip

- Change between wired and wireless controllers. No need for a new power supply, just order the applicable Central Control adaptor or Single-Color Wireless Receiver in addition to your new controller.

Mini Ports

Each power supply has (5) five 3AMP mini ports which can support a maximum of 72 watts each. These ports support the connection of lights to the power supply for central or independent control based on your controlling needs.

REF

- Reference Control Schematics section.

- Rotary Controller cannot connect to these ports.

Independent Control Port

Each power supply has (1) one 3AMP Independent mini port. Lights connected to this port are controlled independent of the lights connected to the other mini ports.

Tip

- In a multi-shelf unit use a separate controller for the bottom shelf task light and a separate controller connected through the central control port to manage all the other lights with a single switch.

- Rotary Controller cannot connect to these ports.
- Wireless Receiver and controllers cannot be connected to this port.

Legacy Barrel AMP Adaptor

On a temporary basis while our light supplier transitions to the new PowerSync offering, the power supply will include an attached barrel connector on each end. This connector is used for connecting to 24VDC controllers and lights. Within the Tailored Solutions Integrated Light offering, this is the Rotary controller.

Power Supply Details

Wattage Limit Requirements

Wattage Limit Requirements

To have a successful lighting application, you need to ensure you have enough power to support your lighting requirements without overloading. This requires consideration and evaluation of BOTH the power supply maximum wattage AND the maximum wattage of the individual ports. Each power supply and can support a maximum of 96 watts. Each Mini port can support a maximum of 72 watts. The legacy barrel amp connector can support a maximum of 96 watts.

- Overloading power supplies or individual ports can lead to excessive voltage in the system potentially causing premature equipment failure or fire. DO NOT OVERLOAD.

Power Supply Maximum Wattage

A first determination of power supplies is the maximum wattage. Each power supply can support a maximum of 96 Watts. If the total wattage of all light assemblies is > 96 Watts, you will need additional power supplies.

To determine the total wattage of a light assembly.

1) Light Assembly Length in Inches / 12.
2) Light Assembly Length in Feet * 3 Watts per Foot.
3) Result is the Total Light Assembly Wattage.
4) Repeat for each light assembly and wattage for all light assemblies together to determine the total wattage going to the power supply.

Example 1

In this example the layout has 3 light assemblies each 96” long. The total wattage is 72 so only 1 power supply is required based on total wattage.

Light Asy Length		Asy Wattage
Inches	Feet	
96	8	24
96	8	24
96	8	24
Total Watts to Power Supply		**72**

Example 2

In this example the layout has 5 light assemblies each 120” long. The total wattage is 150 more than 96. Since the maximum wattage supported by each power supply is 96, light assemblies need to be split between multiple power supplies to ensure the total wattage going to each power supply is <= 96 watts.

Light Asy Length		Asy Wattage
Inches	Feet	
120	10	30
120	10	30
120	10	30
120	10	30
120	10	30
Total Watts to Power Supply		**150**

Light Asy Length		Asy Wattage
Inches	Feet	
Power Supply 1		
120	10	30
120	10	30
120	10	30
Total Watts to Power Supply		**90**
Power Supply 2		
120	10	30
120	10	30
Total Watts to Power Supply		**60**

Power Supply Details

Wattage Limit Requirements

Power Supply Mini Port Wattage

Beyond the overall wattage each power supply can support you need to evaluate the limits of each port. Each mini-port can support a maximum of 72watts. This limitation is important to remember and consider when working through your lighting plans, especially when using a modular light assembly for daisy chain applications or splitters.

- Overloading power supplies or individual ports can lead to excessive voltage in the system potentially causing premature equipment failure or fire. DO NOT OVERLOAD.

Example 1

In this example the layout has 3 light assemblies each 96" (2438.4mm) long. Each light assembly is 24watts and the total wattage is 72. Since both the light assembly and the total watts to the power supply are less than or equal to 72 these lights can be connected independently or daisy chained together.

Light Asy Length		Asy Wattage
Inches	Feet	
96	8	24
96	8	24
96	8	24
Total Watts to Power Supply		**72**

The total wattage of all light assemblies to this power supply is <72 watts so there are no additional limitations on connection based on wattage.

Example 2

In this example the layout has 5 light assemblies each 120" long which have been split between two power supplies based on the maximum wattage limitations of the power supply. Because one of the power supplies will carry more than 72 watts, additional consideration for the connections is required to ensure that each mini port carries no more than 72 watts.

Light Asy Length		Asy Wattage
Inches	Feet	
Power Supply 1		
120	10	30
120	10	30
120	10	30
Total Watts to Power Supply		**90**
Power Supply 2		
120	10	30
120	10	30
Total Watts to Power Supply		**60**

The total wattage of all light assemblies to this power supply are > 72 watts. When planning the lighting layout these lights must go to 2 or more mini ports to ensure each port does not carry more than 72 watts.

The total wattage of all light assemblies to this power supply is <72 watts so there are no additional limitations on connection based on wattage.

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Product Integration

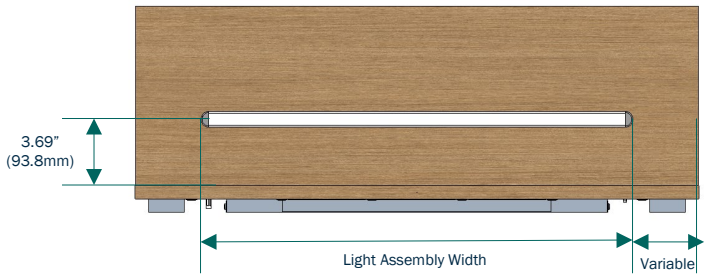
Open Sided and L Shelves

Open Sided and L Shelves

Tailored Solutions has integrated the light offering into the internal automated models for the open sided and L shelves to support quicker and more consistent processing of these requests.

For Open Sided Shelves (ULWL/D, UXWL/D) and L Shelves (ULVL/D, UXWL/D) a routing detail is added to the shelves to support recessing of the light assembly including the connection cords within the shelf. The result is a seamless appearance.

- Light is centered on the shelf at a fixed distance of 3.69" (93.8mm) from the back of the shelf to the centerline of the light.
- The length of the light is specific to the product that it is being integrated into. Reference the table below and Tailored Solutions feature notes for the required length of your light assembly.



Pre-Created Light Assembly Tailored Solutions

The following are light assembly widths required for standard width Open Sided and L shelves. A separate Tailored Solution is required for the shelf assembly to provide the light routing.

- Light assembly size IS NOT always a consistent difference from the catalog size. For all products not covered by the table below ensure you reference feature notes for the light assembly size required.

Width		Pre-Created 3500K, Stand Alone	
Open Sided / L Shelf	Light Asy	TS #	Catalog Equivalent
30	23	TS00-6KHC	LUIL-IR23-24M35SNN
36	29	TS00-6KHD	LUIL-IR29-24M35SNN
42	35	TS00-6KHE	LUIL-IR35-24M35SNN
48	41	TS00-6KHF	LUIL-IR41-24M35SNN
54	47	TS00-6KHG	LUIL-IR47-24M35SNN
60	53	TS00-6KHH	LUIL-IR53-24M35SNN
66	59	TS00-6KHJ	LUIL-IR59-24M35SNN
72	65	TS00-6KHK	LUIL-IR65-24M35SNN
78	71	TS00-6KHN	LUIL-IR71-24M35SNN
84	77	TS00-6KHP	LUIL-IR77-24M35SNN
90	83	TS00-6KHQ	LUIL-IR83-24M35SNN
96	89	TS00-6KHR	LUIL-IR89-24M35SNN
102	95	TS00-6KHS	LUIL-IR95-24M35SNN
108	101	TS00-6KHT	LUIL-IRA1-24M35SNN
114	107	TS00-6KHU	LUIL-IRA7-24M35SNN
120	113	TS00-6KHV	LUIL-IRB3-24M35SNN

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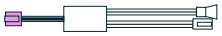
Control Schematics

Component References

Schematic Component References

This section is to provide you with an overview of how the different components and accessories work together to solve a variety of application lighting layouts.

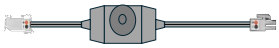
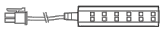
Power Supply Kit Components

P1	Power Supply		P2	Power Extender	
P3	Mini-Port Splitter		P4	Central Control Adaptor * Wired Power Supply Only	
P5	Wireless Receiver * Wireless Power Supply Only		P6	Central Control Link Cord * Not included with Rotary	

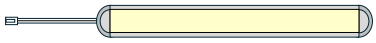
PowerSync Controllers

C	Wired Controller Reference image only, can be any PowerSync Wired Controller		W	Wireless Controller Reference image only, can be any PowerSync Wireless Controller	

Rotary Controller

R1	Rotary Controller		R2	AMP to 3-port Mini Splitter	
R3	Female Barrel to Female AMP		R4	Male Barrel to Female AMP	
R5	AMP Splitter Block				

Light Assemblies

LS	Stand Alone – 1 Male End Illustration only shows attached end. In Application, the power extender cord is used for additional length.	
LM	Modular – 1 Male End, 1 Female End Illustration only shows attached end. In Application, the power extender cord is used for additional length.	

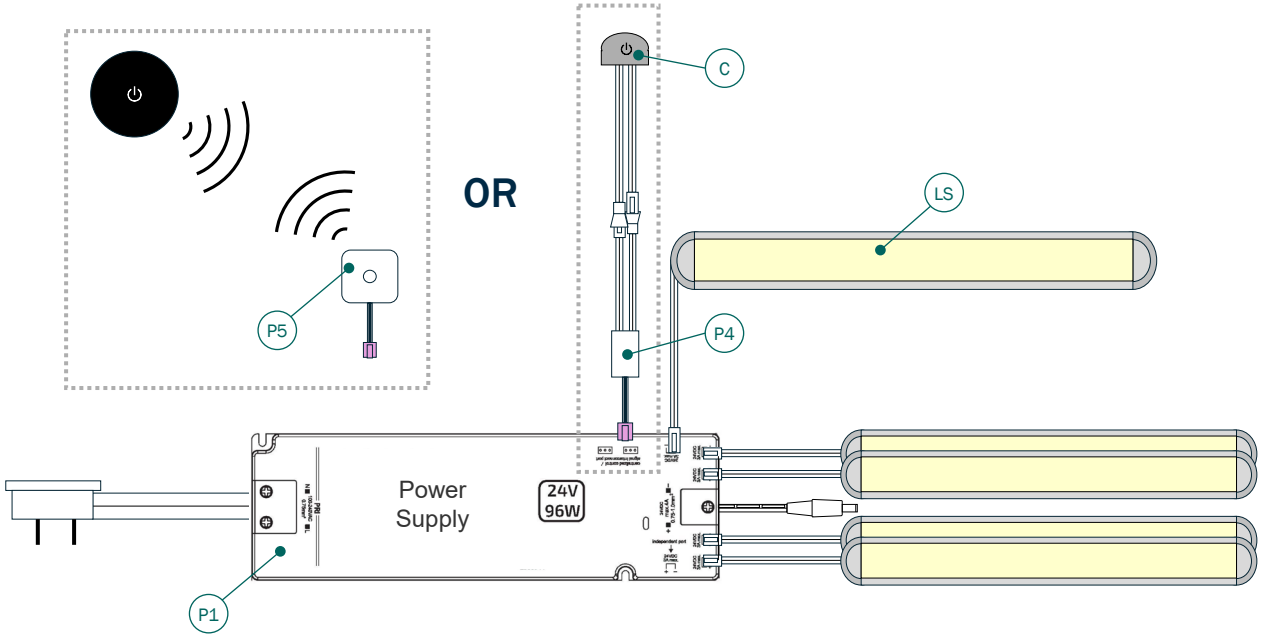
Control Schematics

PowerSync Controllers

Controlling Lights with a Single PowerSync Controller

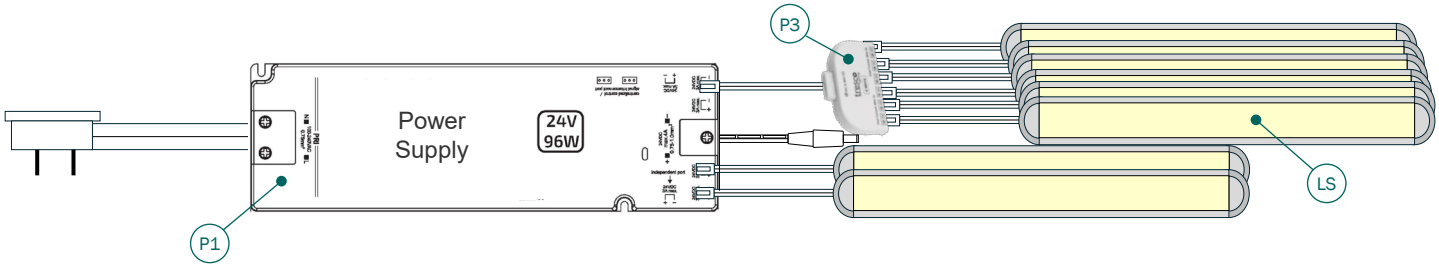
A central control port is used to connect your preferred PowerSync controller by using the applicable adaptor based on if the controller is wired or wireless. All light assemblies connected to any of the (5) five mini ports are then controlled using the controller connected through the central control port.

- Rotary Controller is not supported by these ports.
- Total wattage of all connected lights to each power supply MUST be below 96 Watts.
- Total wattage of all connected lights to each mini port MUST be below 72 watts.



If you need to connect and control more then 5 lights, the Mini-port splitter can be used to split a single port six ways. One splitter is included with the power supply kit and additional splitters can be ordered through service parts.

- Rotary Controller is not supported by these ports.
- Total wattage of all connected lights to each power supply MUST be below 96 Watts.
- Total wattage of all connected lights to each mini port MUST be below 72 watts.



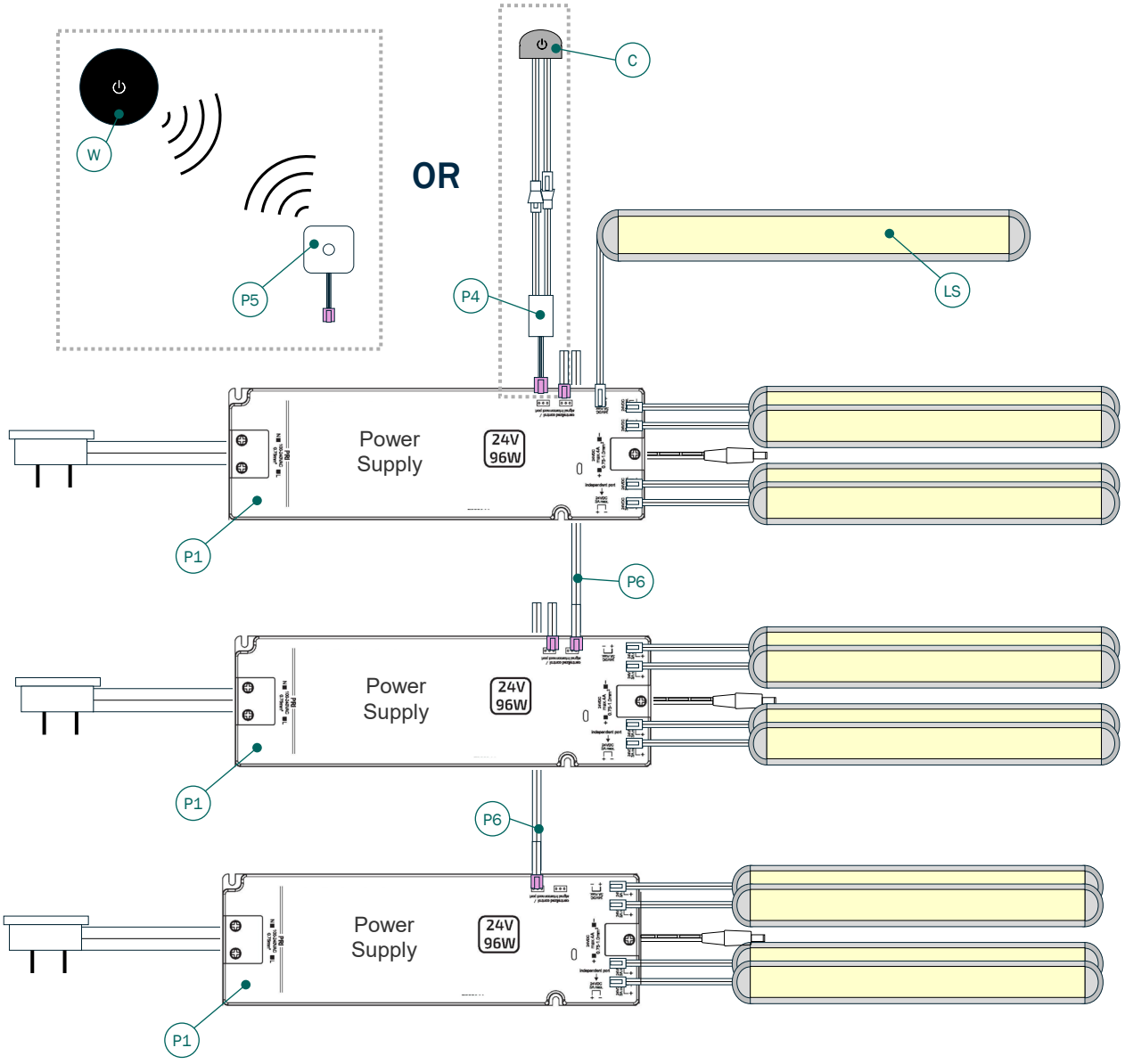
Control Schematics

PowerSync Controllers

Controlling Lights with a Single PowerSync Controller (Continued)

If total wattage of lights exceeds 96 watts, you can link up to 10 power supplies using the included link cord.

- Rotary Controller is not supported by these ports.
- Total wattage of all connected lights to each power supply MUST be below 96 Watts.
- Total wattage of all connected lights to each mini port MUST be below 72 watts.



Control Schematics

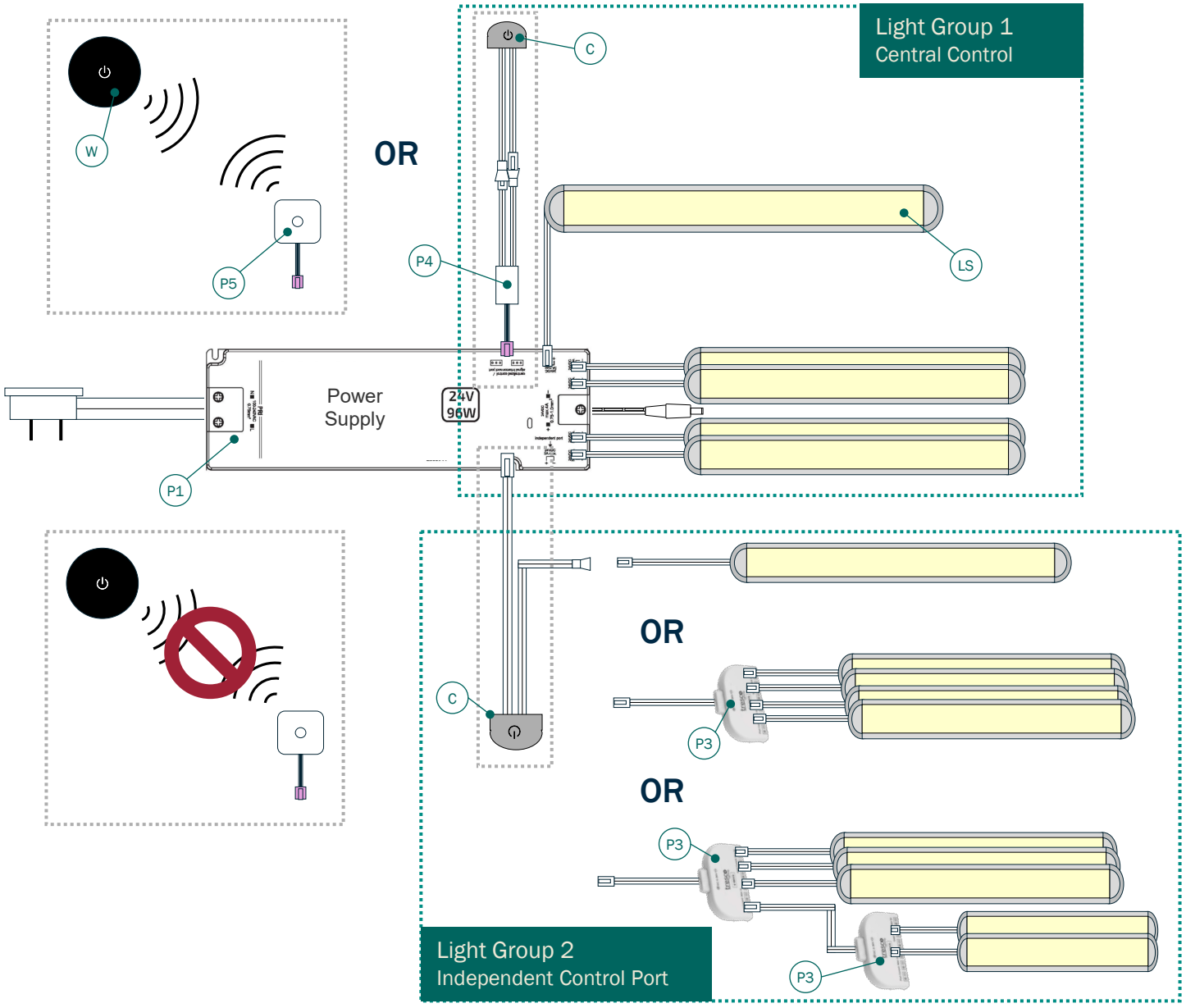
PowerSync Controllers

Using the Independent Control Port for a separate light group

The independent control port allows the control of a group of lights independent from those connected through the mini-ports. In office applications, this supports control of a task light independent from the rest of the display lighting through a single power supply provided the total wattage is below 96. Even though there is only 1 independent port, multiple lights can still be controlled when required by using the mini-port splitter.

- A single receiver or central control adaptor is included with the applicable power supply kit and can be ordered separately as required.

- Rotary Controller is not supported by this port.
- Total wattage of all connected lights to each power supply MUST be below 96 Watts.
- Total wattage of all connected lights to each mini port or the independent port MUST be below 72 watts.
- The wireless receiver CANNOT be connected to the independent port.



Control Schematics

PowerSync Controllers

Independent Control of Lights

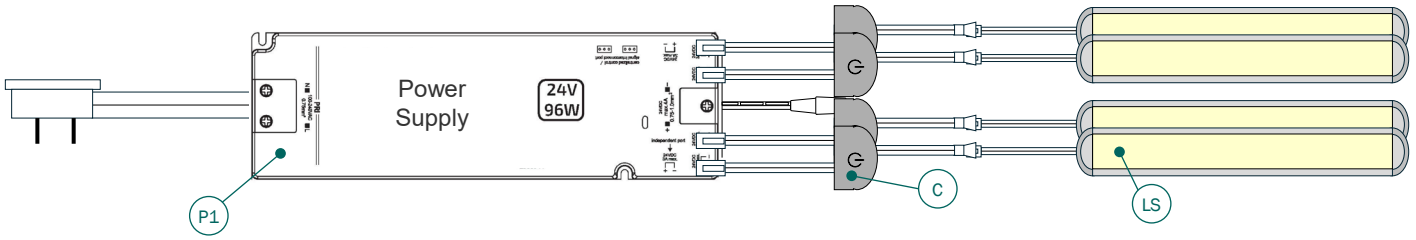
When independent control of multiple light runs is required. The controllers can be connected through the mini-ports rather than using the central control port. This allows each light run to be controlled independently.

If more than 1 light is required within the run, you can use the mini-port splitter to split the number of connections going to the controller or use the modular light assembly to daisy chain the lights.

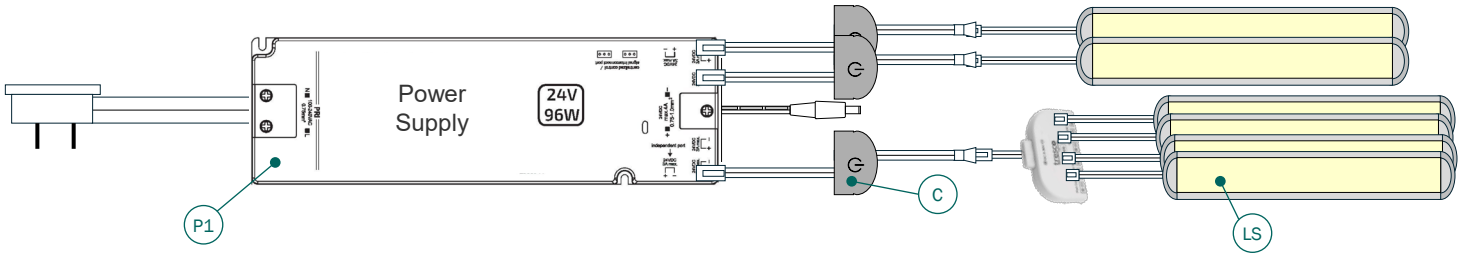
- Total wattage of all lights connected to each power supply MUST be below 96 Watts.
- Total wattage of all connected lights to each mini port MUST be below 72 watts.

Tip

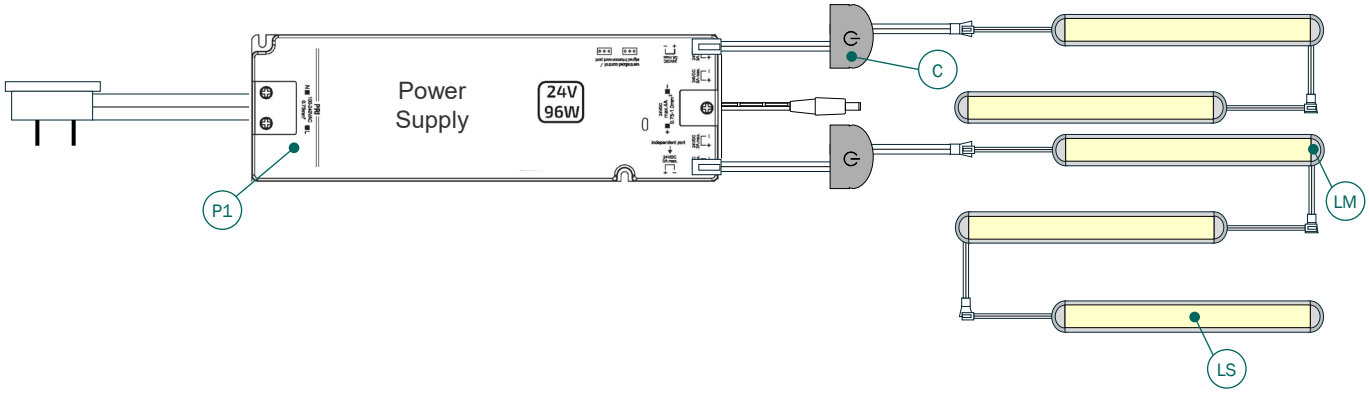
- This type of connection is ideal for pods of desking where you could support independent task lights for the pod through a central power supply – reducing the number of required outlets.
- Modular (Daisy Chain) applications are recommended where wire management is a concern only.



OR



OR



Control Schematics

Rotary Controller

Overview

The Rotary controller IS NOT part of the PowerSync line. This means that it has AMP connector heads vs. the new mini-port connectors. The AMP connector heads cannot connect directly to the power supply mini ports and cannot use the central control port functionality.

To support the transition to the new PowerSync system, the rotary controller comes with several different adaptors to support connection to the power supply using the Legacy AMP Barrel connector that is attached to the power supply unit. Since the central control port cannot be used, neither the central control adaptor or the wireless receiver are included in the Power Supply kit for Rotary controller.

Mini-Port Connectors



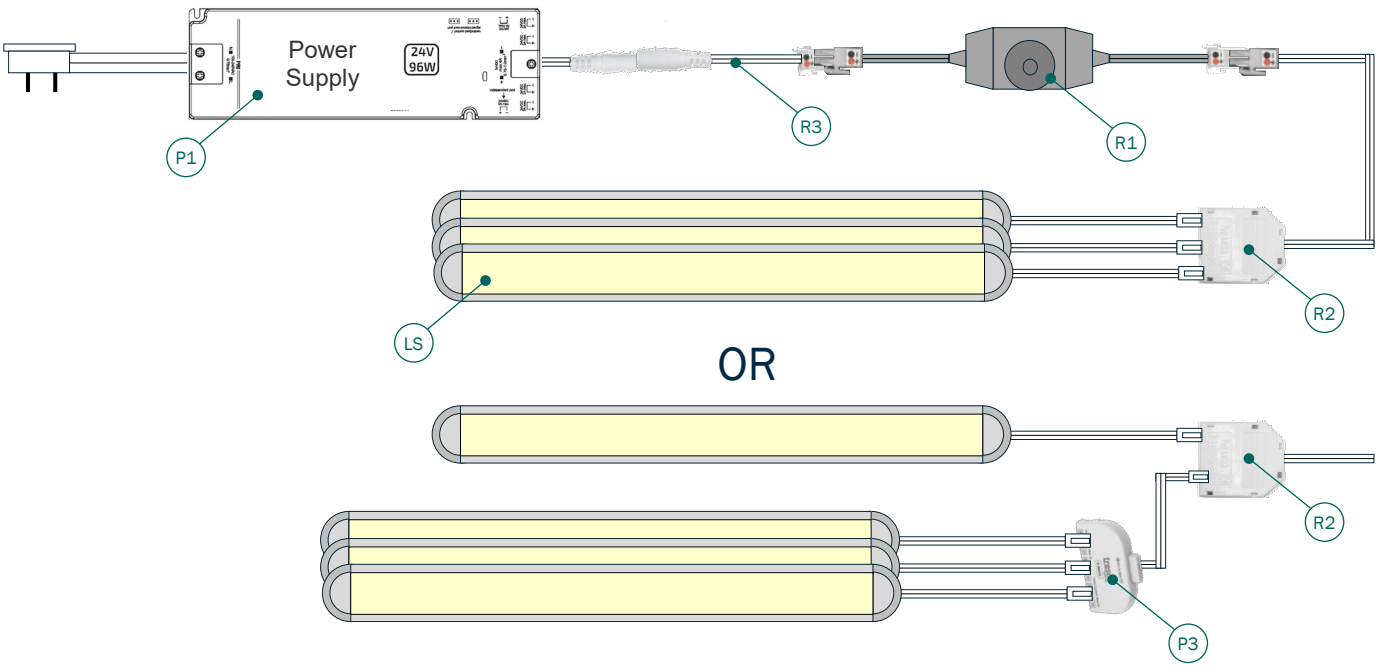
AMP Connectors



Connecting Multiple Light runs to Single Rotary Controller

When using the rotary controller for a single light group the included male to male AMP connector is used to connect the rotary controller to the barrel connector on the power supply. The included AMP to 3-port mini splitter then supports connection of the light assemblies. Where more then three light assemblies are in the light group the mini port splitter included in the power supply kit can be used to provide additional connection ports

- Connection to the power supply MUST be through the barrel connector. No other ports can be used with the Rotary Controller
- Barrel connector supports a maximum of 4amps (96 watts)



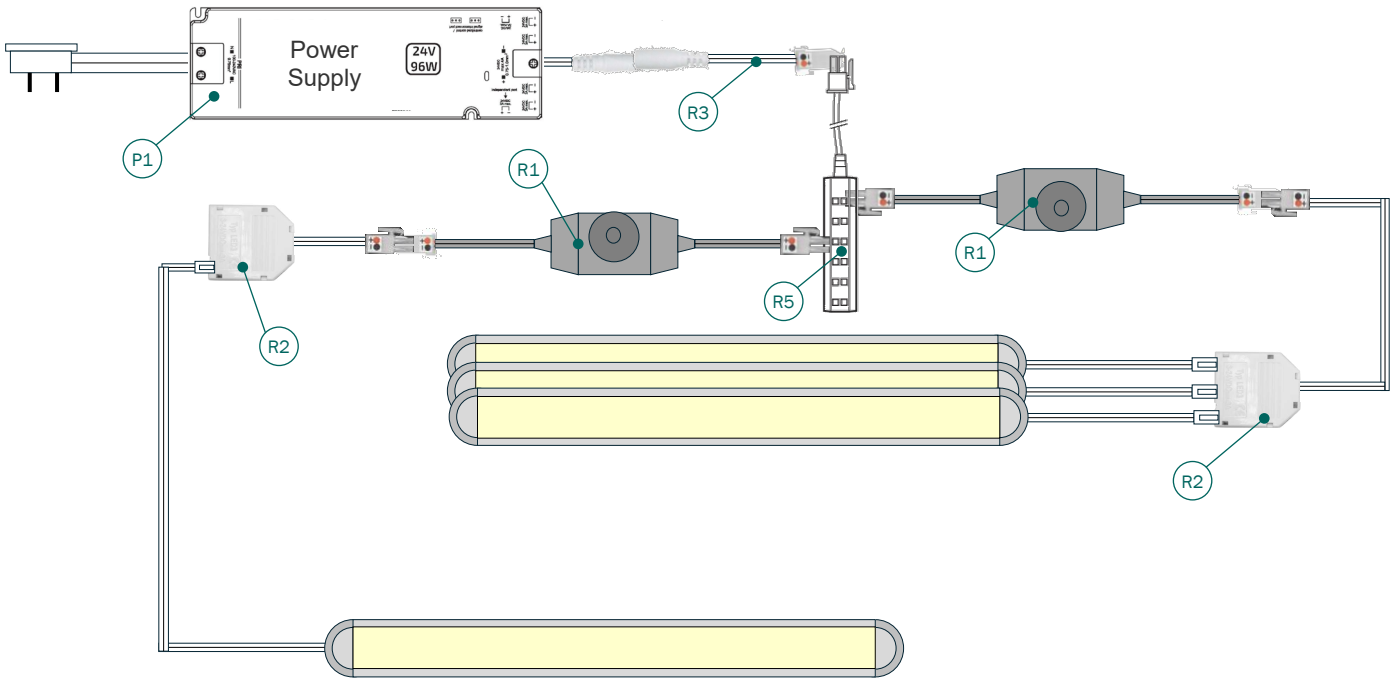
Control Schematics

Rotary Controller

Multiple Light Groups with Rotary Controller

When independent control of multiple light groups is required with the Rotary controller, the AMP splitter, included with the Rotary Power Supply Kit is used to support connection of up to (6) Rotary controllers to the power supply.

- Connection to the power supply MUST be through the barrel connector. No other ports can be used with the Rotary Controller
- Barrel connector supports a maximum of 4amps (96 watts)



Application Example

Example



Step 1: Determine where lights are required

This application has (2) open sided shelf units, each 30”W (762.0 mm) and (1) L-Shelf 78”W (1981.2 mm). There is also a wardrobe on the far left. The first step is to determine the functional lighting requirements. Do you want all shelves to have a light? Alternatively, you may want just the L-Shelf over the worksurface or both the L-Shelf and the bottom shelves of the open sided shelves to be illuminated. Do you want lighting within the wardrobe on the far left? If you would like lighting within the wardrobe, will the light be surface mounted or do you want it recessed?

For the purposes of this example, we are going to have lights recessed in all shelves and then a surface mounted light in the wardrobe.

Step 2: Determine Light Sizes and Wattage

All these shelves are standard widths. Using the table provided in the product integration section, we can determine the 30”W (792.0 mm) shelves will require a 23”W (584.2mm) light assemblies and the 78” (1981.2 mm) L-Shelf will require a 71” (1803.4 mm) light assembly. The wardrobe has an overall width of 19” (482.6 mm), with an interior width of 17.5” (444.5 mm). Following consultation, we will specify a 16”W (406.4 mm) light assembly for this unit.

With the quantity and sizes of lights determined, we can now determine the minimum number of power supplies that will be required. This is done using the calculation steps outlined under the ‘Determining Number of Power Supplies’ section. Since the total wattage of all lights is below 96 watts, only a single power supply is required based on wattage but may change in future steps based on how the lights are controlled.

	Light Asy Length		Watts / Foot	Asy Wattage	# of Assemblies	Total
	Inches	Feet				
30”Wide Open Sided Shelf	23	1.92	3	5.76	3	17.28
78” Wide L-Shelf	71	5.92	3	17.76	1	17.76
30”Wide Open Sided Shelf	23	1.92	3	5.76	3	17.28
Wardrobe	16	1.33	3	3.99	1	3.99
				Total Watts to Power Supply		**56.31**

Application Example

Example



Step 3: Determine Light Groups and Control

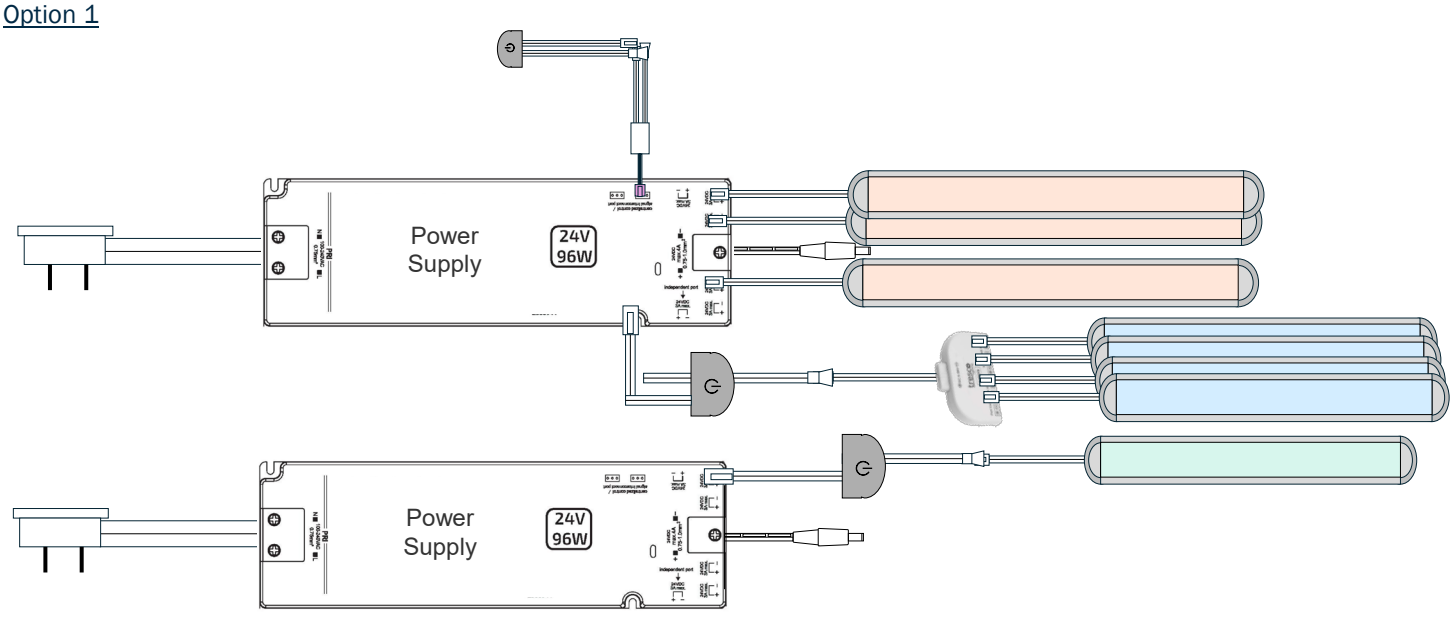
For this example (3) light groups have been determined for the layout. Task lights (orange), Display lights (blue) and Wardrobe (green). These groupings could be modified to have move or less depending on the usage needs of your client(s).

To manage these three groups, we will need three controllers, one for each group.

Step 4: Determine connection to Power Supply

Based on total wattage we only need a single power supply. However, since there are (3) light groups more consideration of how to control the lights is required. Wireless controllers must use the central control port; this means each wireless controller must be connected to its own power supply. For wired controllers, using the central control port with the independent port allows control of two light groups.

Option 1



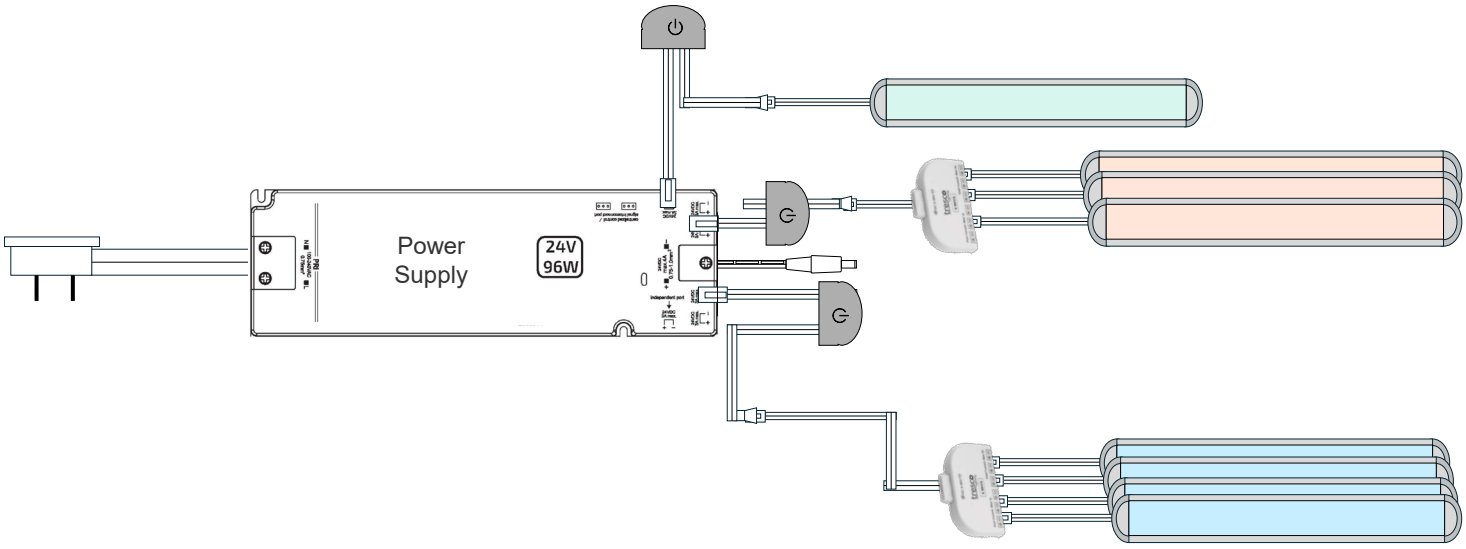
Application Example

Example



Step 4: Determine connection to Power Supply (Continued)

Option 2 – Wired PowerSync Controller

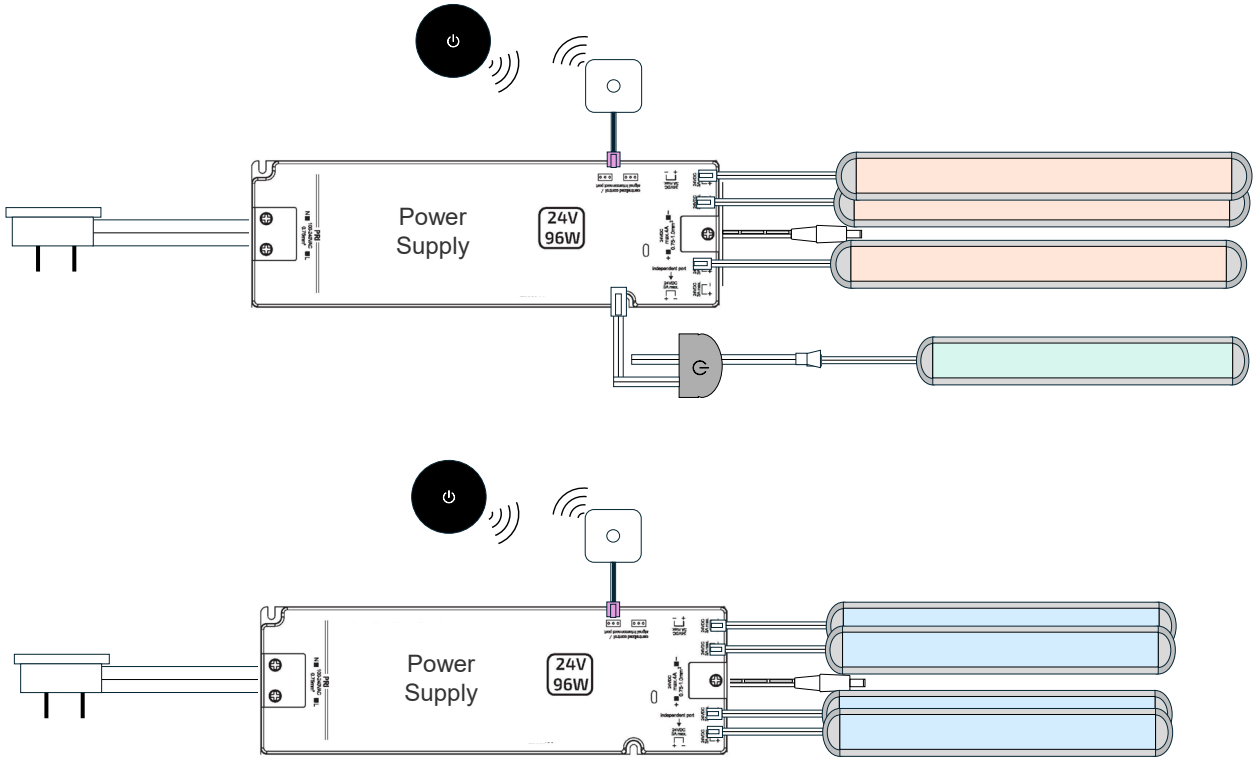


Application Example

Example

Step 4: Determine connection to Power Supply (Continued)

Option 3 – Wireless PowerSync Controller



In evaluating the options, Option 2 would provide the most cost-effective solution. An additional mini-port splitter would be required. However, both Options 1 and 3 would require an additional power supply kit.

Step 5: Determining if additional accessories, components and requirements.

Once you have determined a general plan for lighting control, you will need to consider if additional components or actions are required to complete your wiring layout.

Examples of some things to consider:

- Are additional splitters, receiver(s) or central control port adaptors required?
  - Each power supply kit includes (1) mini-port splitter and either (1) wireless receiver or (1) central control port adaptor.
- Will you require additional cord lengths to accommodate connections?
  - Each light assembly comes with a 96” (2438.4 mm) extender which will connect to the approx. 17” (431.8 mm) connector attached to the light assembly. With consideration of routing through the shelf, this will provide approx. 104” (2641.6 mm) of length. If you require more length, you will need to order additional power extenders which come in 48” (1219.2 mm) lengths.
  - An additional 96” (2438.4 mm) extender is included with the power supply kit as well.

Step 6: Summarize required parts for order and request any required tailored solutions.

FAQ

What are the advantages or disadvantages between stand alone and modular light assemblies?

The primary consideration between stand alone and modular light assemblies is wire management. If your application requires hiding the wiring for numerous amounts of lights in a smaller area, such as a narrow open sided shelf with 5 lights, you many want to consider modular light assemblies to reduce the number of wires behind the shelf. The modular assembly can also be useful when the power supply is a long distance away from your light installation. Utilizing the modular assembly allows you to connect the light groups together in a smaller footprint and reduces the number of wires required to make the long distance to the power supply. However, the modular light assembly does come at a slightly higher cost.

My client already has a 12V light assembly installed. Can we just add on to their layout?

No. The 12V and 24V systems cannot be mixed. When completing reconfigurations ensure you understand which system is being used.

Can I use these lights with other products?

Yes! The mounting clip design allows you to surface mount these to other wood core products. The slim profile of the assembly can be easily hidden behind the light valance on most overhead storage. If you would like the light to be recessed, this would require the product to be tailored for the applicable routings. Submit an inquiry request to determine the feasibility of this within your specific product.

Can the lights be mounted with magnets?

By others. This light assembly does not include a magnetic mounting attachment option.

Can I change the depth location of the light on the shelf?

No. Due to manufacturing equipment limitations, it is not feasible to move the light closer to the front edge of the shelf. If this is a critical requirement for your application, it is recommended that you request a call to work through potential solutions for your specific application needs.

Are there wattage limitations on the controllers?

There are no additional wattage limitations for controllers beyond the wattage limitations of the power supply (maximum 96 watts) and the mini ports (maximum 72 watts).

Can I connect the wireless receiver to the independent control port?

No. The wireless receiver can only be connected a single central control port.

Can I use the central control ports for two separate controllers?

No. One central control port is used to control connections to the (5) mini-ports, while the other is used to link together multiple power supplies. It does not matter which port is used for which, however you cannot use both control ports for connection of the same component such as two controllers.

Which ports support the rotary controller?

The rotary controller can ONLY be used with the Legacy Barrel adaptor on the power supply. This controller will be phased out by the supplier, so it is recommended to standardize on one of the PowerSync controllers.

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