HOW to WIRE

WIRING GUIDE FOR THE ATX LED SYSTEM

AL-CBOX4 Rough-in Junction Box for easy code-compliant installation

Overview

ATX LED offers home builders a lower-cost, flicker-free, perfectly-dimmable LED lighting system using low-voltage DC power without changing the look and feel of traditional fixtures or switches. ATX LED's solution converts 120 V AC to DC just once per house to provide DC power to lights, fans, and chargers and reduce labor cost, save copper, and improve the end-user experience with higher reliability. ATX LED's innovative technology eliminates the need to run high-voltage ROMEX™ throughout the home and instead uses 18/5 or 18/3 for home runs and 18/2 between switches and lights.
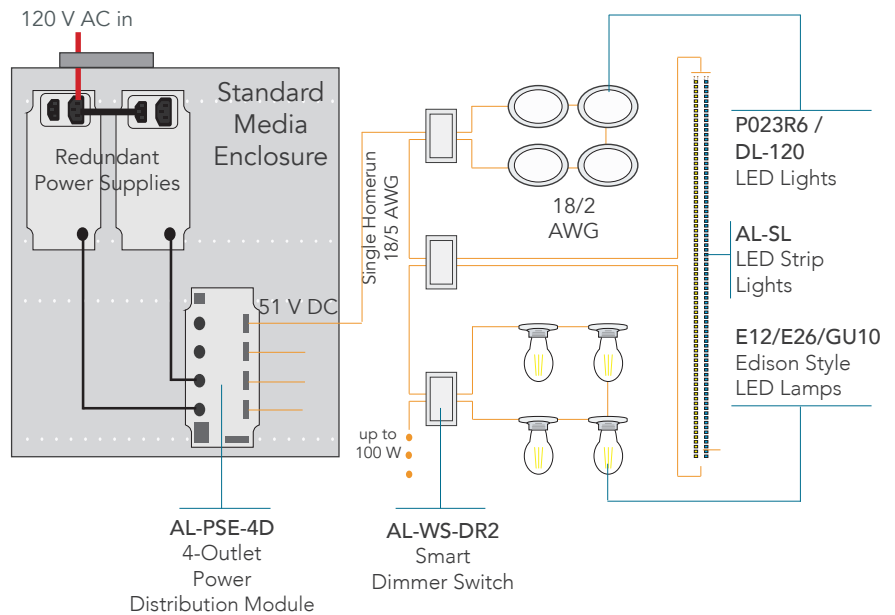
The end product can be value priced with simple on/off standard wall switches, or smart and full-featured without significant additional cost. Designed for volume builders, the labor and schedule savings allow projects to be completed more quickly and at lower costs.

Complete System Solution

ATX LED's innovative system features redundant power conversion hardware to insure continuous operation even in the case of unexpected failure. The system includes a selection of LED lighting, switches, power management hardware, and accessories. All ATX LED products are UL listed and compliant with California Title 24 standards, as well as compatible with common smart home controls. The ATX LED DAbus provides smart home connectivity and control.

Voltage Drop Solved

ATX LED products accept a range from 44V to 54V - allowing for on-grid or Battery operation. 48V class of products result in less than 3% voltage drop in residential projects, for ultimate energy savings.

120 V AC in

Standard Media Enclosure

Redundant Power Supplies

51 V DC

Single Homerun 18/5 AWG

18/2 AWG

P023R6 / DL-120 LED Lights

AL-SL LED Strip Lights

E12/E26/GU10 Edison Style LED Lamps

up to 100 W

AL-PSE-4D 4-Outlet Power Distribution Module

AL-WS-DR2 Smart Dimmer Switch

Typical ATX LED System Example

Ceiling Fan

Exhaust Fan

Contents

Wiring Overview

Conventional wiring for 120 V AC lighting systems relies on heavy gauge (AWG 14) ROMEX. This wire is designed to carry heavy 1800 W loads; it is not required for low-power LEDs. The ATX LED system saves copper and simplifies installation by using right-sized 18/5 skinny wire for home runs and daisy-chaining switches and 18/2 for wiring between switches and lights. This wiring delivers the appropriate amount of power to each fixture without the need for conversion circuitry in each fixture.

The ATX LED system is wired with 18/5 throughout, though our Value Line products require only three wires. This allows for easy upgrade to a full-featured Signature Line system with the simple swap of switches and fixtures; no wiring changes are required. The diagrams in this manual are simplified for clarity when appropriate, showing only the three wires connected on Value Line examples. For extreme cost savings, 18/3 home runs might be used, but this is not recommended since it precludes future upgrades.

| ROMEX	ATX LED
14AWG @ 15A = 1800 Watts/LED	18/2 AWG　　18/3 AWG　　18/5 AWG The ATX LED system utilizes skinny wire for all DC circuits: - 18/5 for all home runs and for daisy-chaining switches. - 18/2 from switches to LEDs and between LEDs - For the special case of DALI installations, use 18/5 for home runs.

Lighting Options

Bulbs		Lights	
E26		P023R6	
E12		DL-120	
G4		TL-60	
G9		PEN-60	
GU10		R@R	

Wire Sources

Application	Gauge	Vendor	$ / sq ft June 2021	ft / 1800 sq ft home
Home Run (standard)	18/5	https://www.homedepot.com/p/Southwire-250-ft-18-5- Brown-Solid-CU-CL2-Thermostat-Wire- 64169644/202316418	28 cents	300 ft
Home Run (not recommended)	18/3	https://www.homedepot.com/p/Southwire-500-ft-18-3- Brown-Solid-CU-CL2-Thermostat-Wire- 64168845/202316308	16 cents	300 ft
Switch to Light	18/2	https://www.homedepot.com/p/Southwire-500-ft-18-2- Brown-Solid-CU-CL2-Thermostat-Wire- 64162144/202316306	12 cents	660 ft
		Or https://www.amazon.com/Vertical-Cable-Conductor- Unshielded-1000ft/dp/B01ATXS82E/ref=sr_1_55?	16 cents	
Switch to Ceiling Fan	18/7	https://www.homedepot.com/p/Cerrowire-250-ft-18-7-Brown-Solid-Copper-CL2R-Thermostat-Wire-210-1007G3/202206430	10 cents	120 ft

18/5 Wiring Color Chart

Color	Function	Comment
Red	Power to the Wall switches (48 to 52 V)	Up to 100 Watts
Blue	Return power	
Green	Earth ground for static discharge	Detours static electricity from people to earth
White	DALI bus (-)	Polarity not significant
Yellow	DALI bus (+)	Polarity not significant
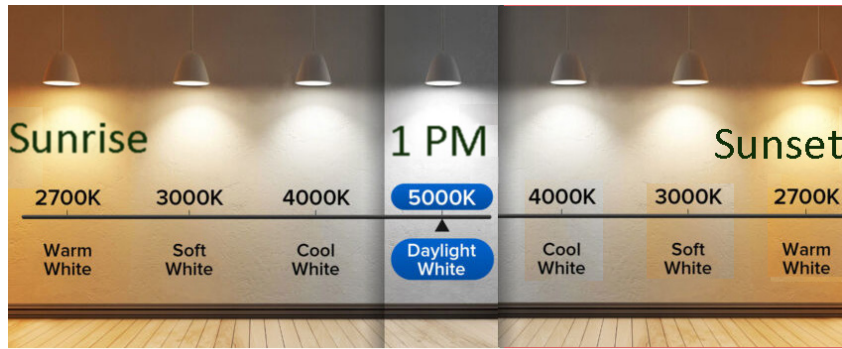
Optional Time of Day Lighting Rhythm

Flexibility to Choose

ATX LED gives builders the ability to offer home buyers a simple and seamless upgrade path at any stage of the build process because no changes to wiring or other buildout are required. Simply choose lights and switches from the same line to create the optimal lighting experience.

Value Line

The entry-level products in the Value Line offer a starting point for installing energy-efficient DC lighting, with a selection of fixed true white light colors and standard switches.

Signature Line

The Signature Line is for customers who want a fully programmable system that integrates with common wireless smart home controls. Lights in the Signature Line can be color tuned to a wide range of colors and programmed to adjust throughout the day.

SIGNATURE Trim Connections

Wire Color	Wire Marking	Function	Comment	Connector Color
Red	DOWN	+ voltage to the first LED in a string	Warm White +	Red
White	DOWN	- voltage to the first LED in a string	Cool White -	White
Red	UP	- voltage to the last LED in a string	Warm White -	White
White	UP	+ voltage to the last LED in a string	Cool White +	Red

Use blue tape to mark UP. DOWN is not marked.

48 V VALUE Trim Connections

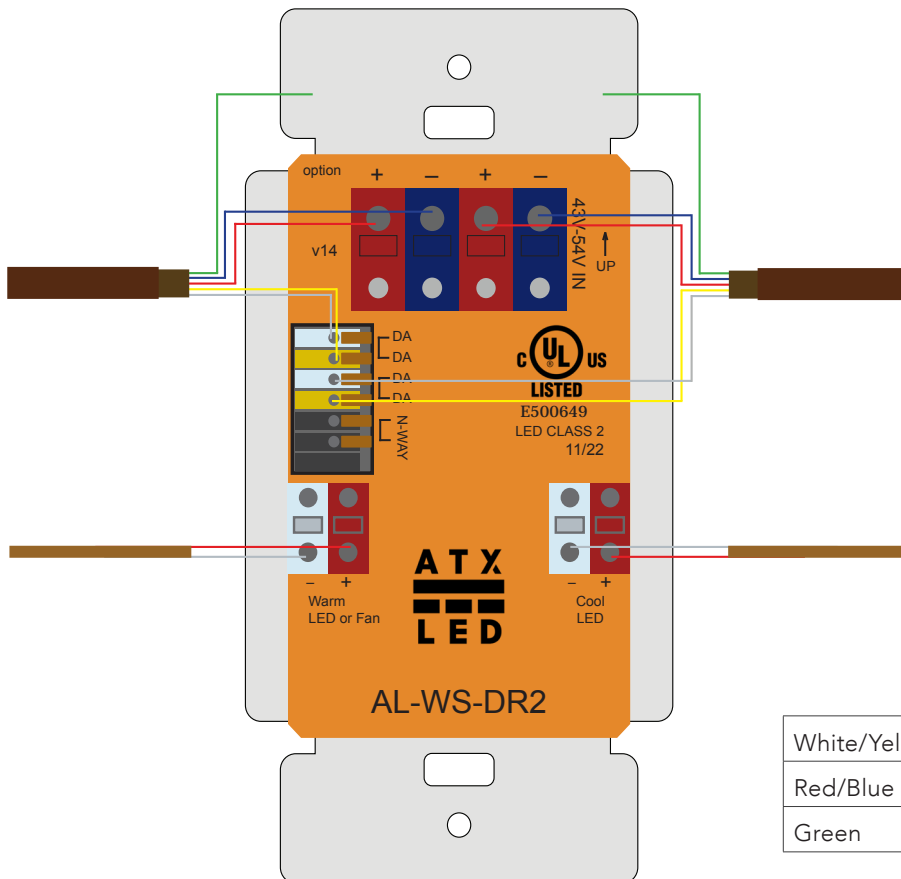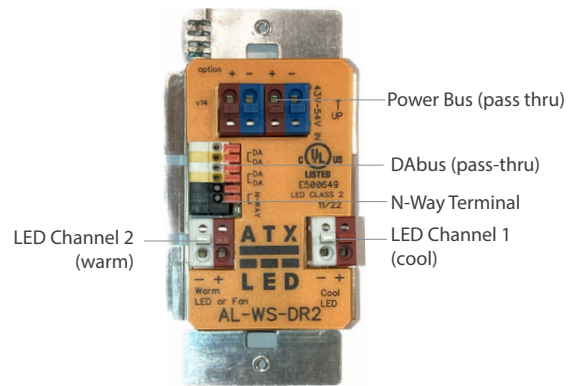| Color	Wire Marking	Function	Comment
Red	UP	+ voltage to the first LED in a string	
White	UP	- voltage to the first LED in a string	
Red	DOWN		Reserved for future use
White	DOWN		Reserved for future use

Meet the DR2

The DR2 is the heart of the entire system. From the front it looks like a typical style wall switch with a slide dimmer. This is where the driver for the LEDs is located. The DR2 uses current control technology to provide perfect dimming to each of its corresponding LEDs. There are several different types of DR2 available, depending on application, as shown starting on page 11 .
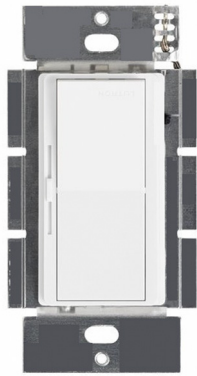
RECOMMENDED
Slider on the left
Press bottom

NOT RECOMMENDED
Slider on the right
Press top

Power Bus (pass thru)

DAbus (pass-thru)

N-Way Terminal

LED Channel 2 (warm)

LED Channel 1 (cool)

Typical DR2 Wiring

Color Chart

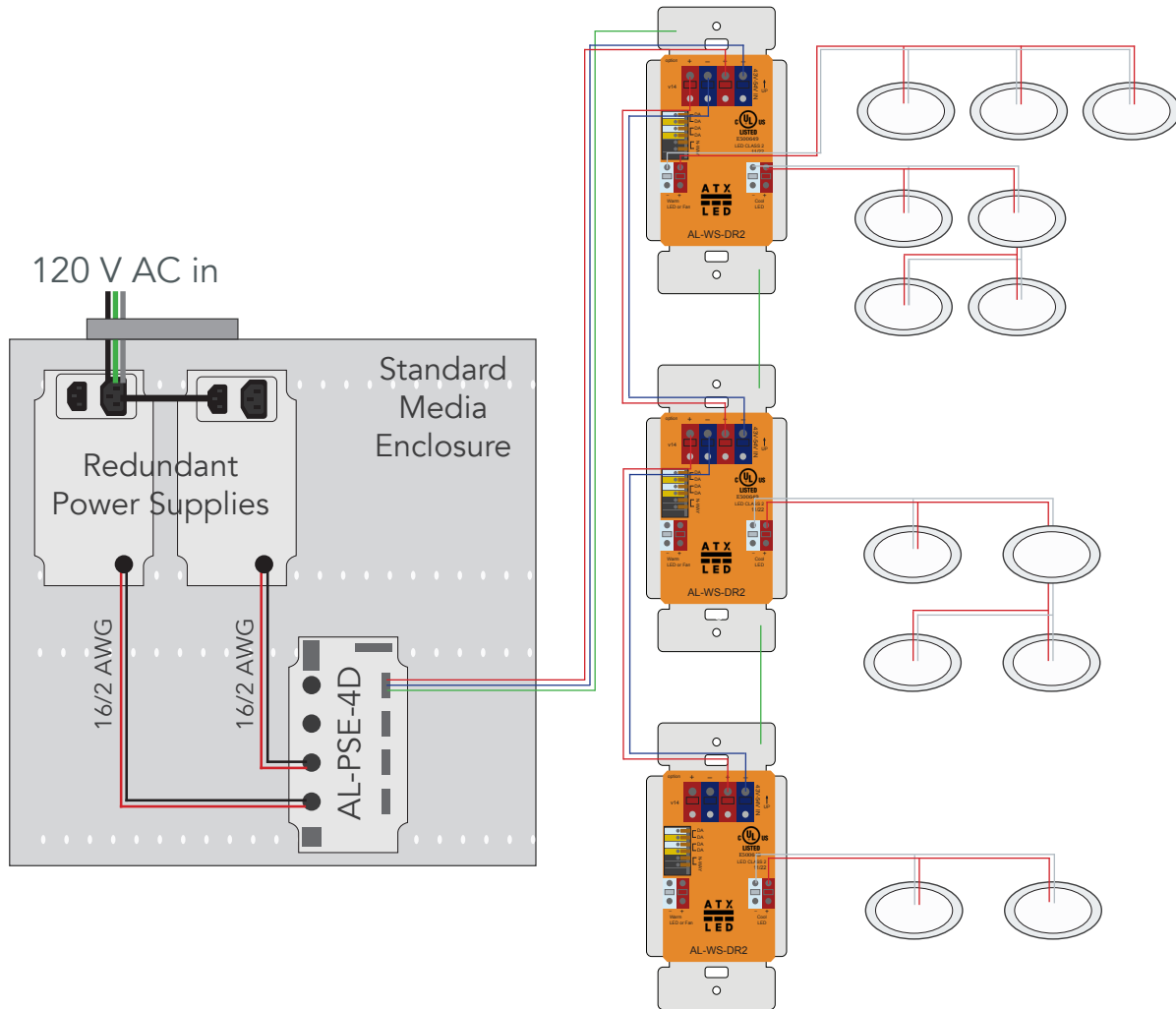| White/Yellow	DAbus
Red/Blue	Power
Green	Earth

Power Architecture

The system is powered by one or more 51v96w AC/DC converters. There are two or more contained in the network panel. Only one is needed for each 100 Watts of load, plus one is recommended for rendundancy. The AL-PSE-4D power distribution board is equipped with automatic fail-over, meaning that if a power supply fails, the AL-PSE-4D will automatically go to backup. Backup can also be a battery system. For houses with over 500 Watts of load, 350 and 500 Watt supplies are recommended and are used with AL-PSE-8D.

120 V AC in

Standard Media Enclosure

Redundant Power Supplies

16/2 AWG

16/2 AWG
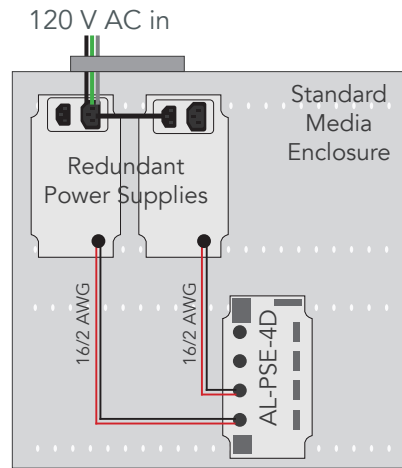
AL-PSE-4D

Power to Room LEDs

This diagram shows an example arrangement of three wall switches controlling three separate zones of LEDs, all powered from the same home run. Each home run of the AL-PSE-4D (power distribution board) may carry up to 100 Watts. Due to DC line losses, however, it is recommended that only 15 of the 6 Watt LEDs be used in this manner.

Wall switch power may be daisy-chained, as long as the total power demand does not exceed 100 Watts. Again, it is important to consider line losses. Though the max DC power is 100 Watts per home run, 90 Watts of load is recommended. Please see "Typical DR2 Wiring" on page 6 for more detail on complete wiring.

120 V AC in

Standard Media Enclosure

Redundant Power Supplies

16/2 AWG

16/2 AWG

AL-PSE-4D

AL-WS-DR2

AL-WS-DR2

AL-WS-DR2

ATX LED

An Example of Power Distribution Architecture

All wires shown in this diagram are 18/5. Earth ground and control lines are omitted for clarity. Please see "Typical DR2 Wiring" on page 6 for more detail on complete wiring.
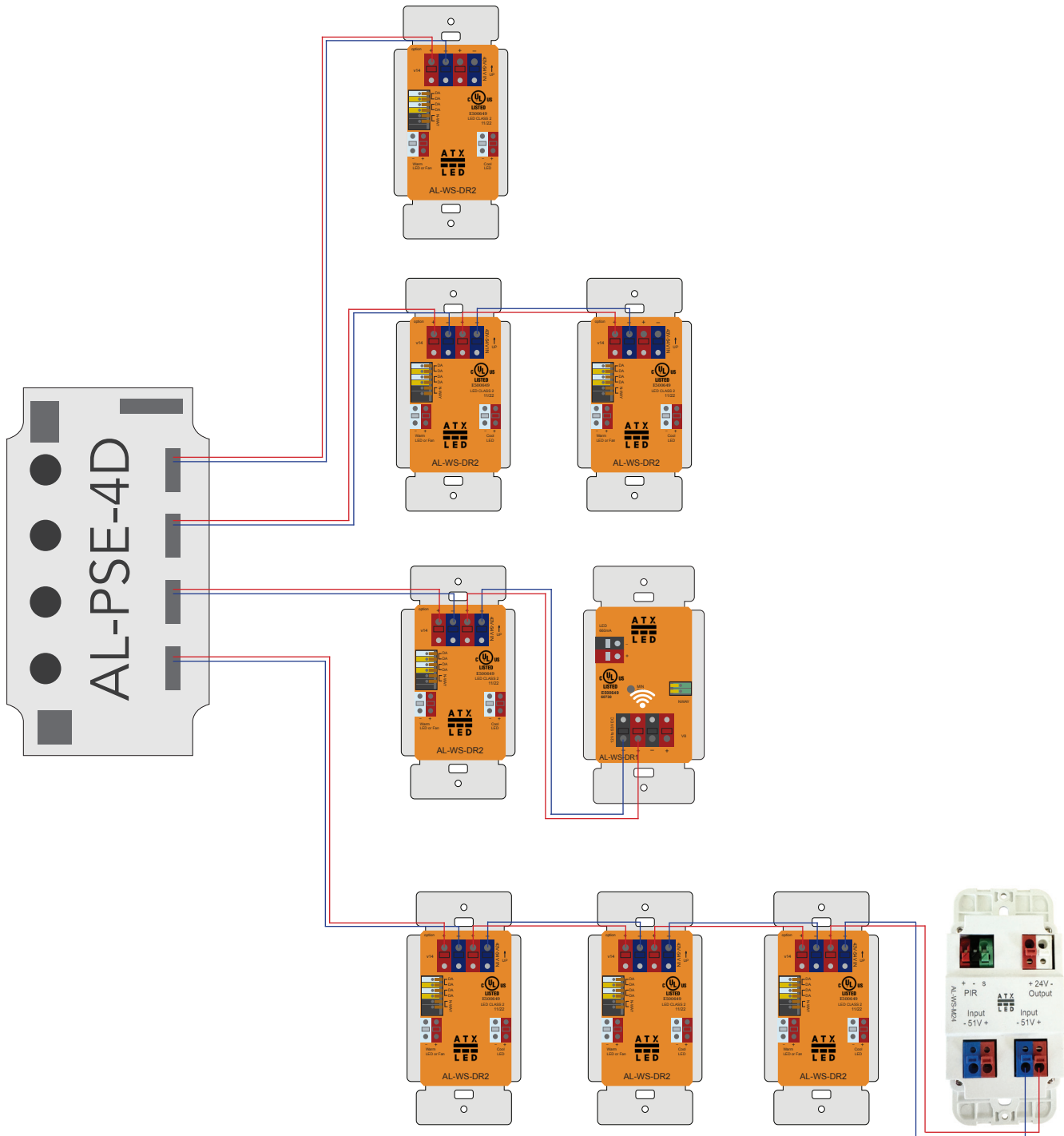
Switch-to-Switch Power with DALI™

ATX LED switches can be daisy-chained as shown below. Control and ground are omitted for simplicity; please see "Typical DR2 Wiring" on page 6 for more detail on complete wiring.

Digital
**A**ddressable
Lighting
Interface

Where the WiFi option allows control of select switches, the DALI™ system allows for whole-home control.

This is the highest-end option for new homes.

The ATX-LED DALI™ system can be compared to Control 4, but much more cost effective.
At the high end, DALI™ works with Crestron and Control 4.
Easier to install than other options because our DALI™ system does not require multiple cat5 terminations.
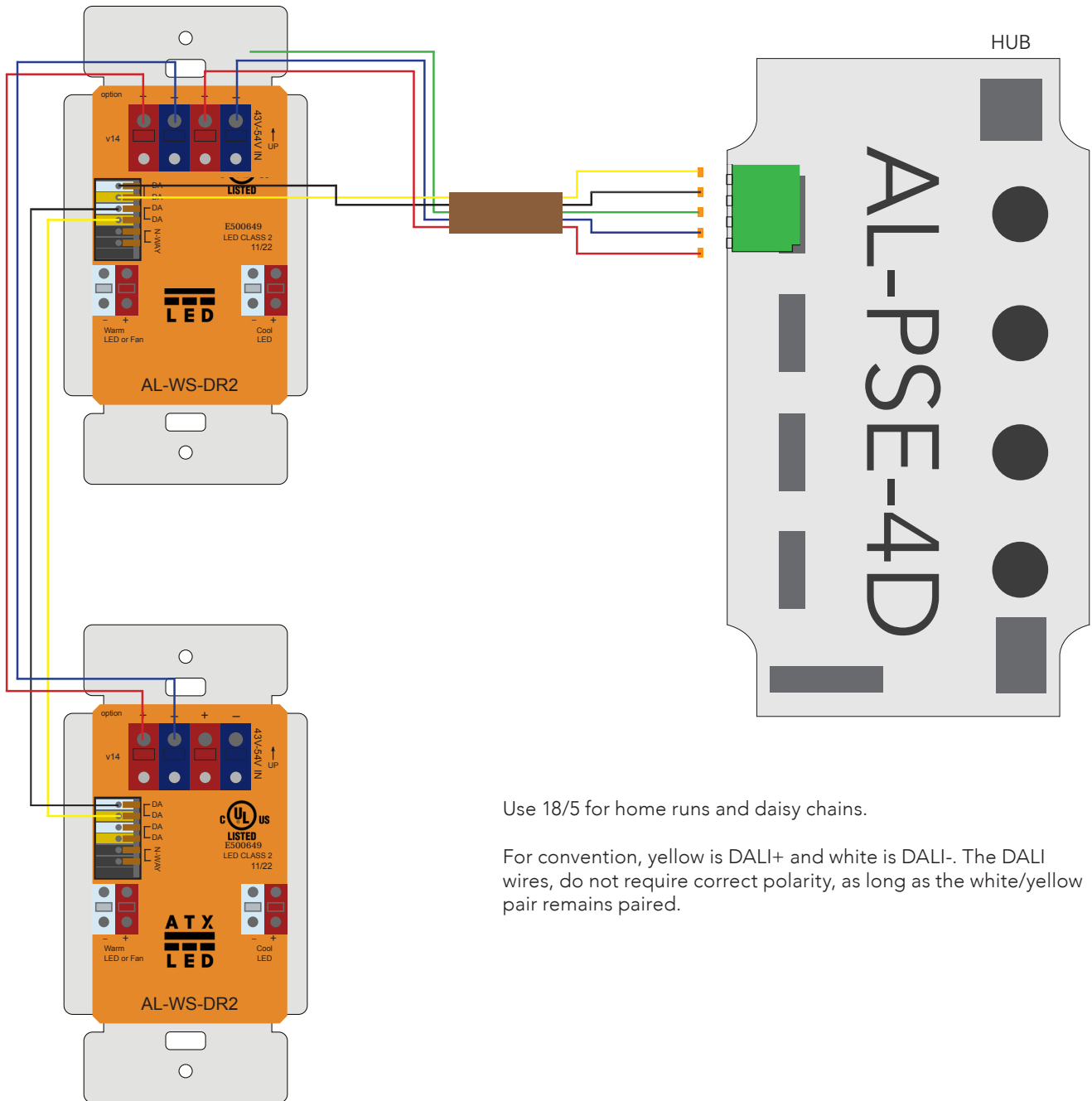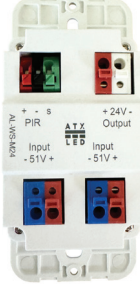

Use 18/5 for home runs and daisy chains.

For convention, yellow is DALI+ and white is DALI-. The DALI wires, do not require correct polarity, as long as the white/yellow pair remains paired.

Control Devices
VALUE LINE Switches

The following switches provide simple on/off control and smooth dimming and can be used with fixed-color true white LEDs from the Value Line.

	Lighting Wattage	Dimming	N-way Capable	Fan	Tunable White
AL-WS-DR1	30 Watts CC 48V CV	10%	Yes	No	No
Simple Switch	96 Watts 51V CV	None	Yes		Exhaust Fan
AL-WS-M24	60 Watts CC or CV	No	No	No	Ceiling Fan

SIGNATURE LINE Smart Control Devices

The switches in the following table are designed to be used with tunable white LEDs and provide WiFi connectivity, programmability, and can be used with common smart home controls. They also can be used with Value Line fixed-color LEDs, though their added control capabilities would be functional.

	Control Method	Lighting Wattage	Dimming	N-way Capable	Fan	Tunable White
AL-WS-DR2	DAbus	60 Watts Fixed 30 Watts Tunable	0.1%	Yes	Exhaust Yes	Yes
AL-WS-DR2C	Optional DAbus	60 Watts Fixed 30 Watts Tunable	0.1%	Yes	Exhaust Yes	Yes
AL-SML-DR2	DAbus	75 Watts Tunable	0.5%	Yes	No	Yes

Other Components

ATX LED offers the following switches to complete a full home lighting system, serving the need for bath/fan switches, occupancy, and momentary switches.

	Lighting Wattage	Dimming	N-way Capable	Note
AL-WS-DALI	External	Yes via DAbus or 0-10V	Yes	
AL-WS-M	External	Yes via DAbus	Yes	Use with AL-WS-DR2
AL-WS-8B	External	Yes via DAbus	Yes	From 1 to 8 Button Keypad

Installation Accessories

AL-CBOX-4-HB Ceiling Mount Receptacle

All of our 4" LED wafers come packaged with optional hangar springs that mount perfectly with our orange rough-in box. The low voltage AL-CBOX4 quickly attaches to the home ceiling flat truss or vertical beams at rough using either standard nails and hanger bars. LEDs such as the P023R6-(wafer), DL-120 (recessed), DL-127, and PEN-60, R@R temp lighting fixtures, WiFi access points, smoke detectors, and cameras, can be mounted into the CBOX4.

This device solves three requirements for code compliant installation of low voltage devices in ceilings:
- all junctions inside a junction box
- mechanical support by the rafters not the sheetrock
- fire-rated UL94V-0 polycarbonate material

The AL-CBOX4 also simplifies installation by allowing:
- built in depth guide eliminates vertical measurements
- X-Y alignment of the position before sheetrock
- positions low-voltage wire above sheetrock to avoid damage
- holds the R@R temporary light sources for jobsite lighting prior to final electrical inspection
- hole cutting, tape, float, paint to be done by the sheetrock team before installing the lights
- super fast trim installation

Please note: The AL-CBOX4-N does not come with a mounting bar.

CBOX4-HB

4.75 in

4.0 in

CBOX4-N

18/2 AWG

"UP"

18/2 AWG
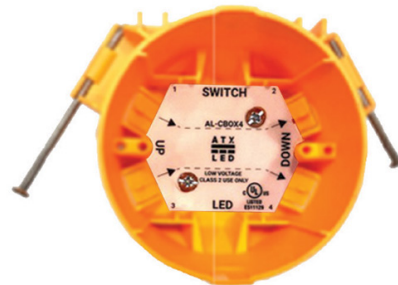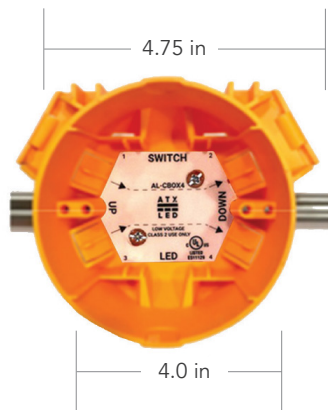
"DOWN"
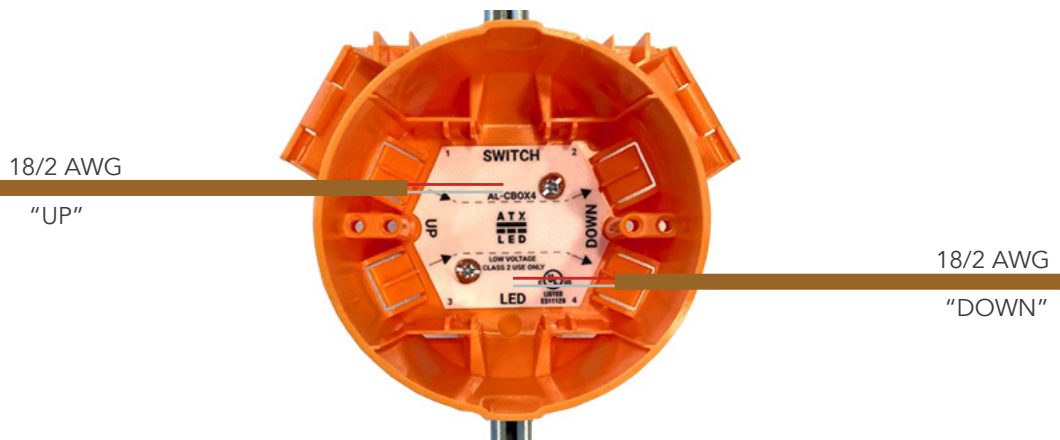
Ready-at-Rough Kit

ATX LED's Ready@Rough kit allows lighting installers to validate proper function of the lighting system prior to drywall installation and to cover and protect wiring during the rest of the buildout process. After the CBOX4 and electrical boxes for the switches are installed, lighting installers can use the corresponding components of the R@R "Work" and "Wall" kits to verify the lighting system and protect from accidental cuts during the rest of the buildout process.

Additionally, the included LED lighting works from the moment the wiring is installed and provides lighting for the jobsite during the weeks of finishing work. If a wire is cut during finishing work, the temporary R@R light goes out immediately, making it easy to identify and remedy problems as they arise.
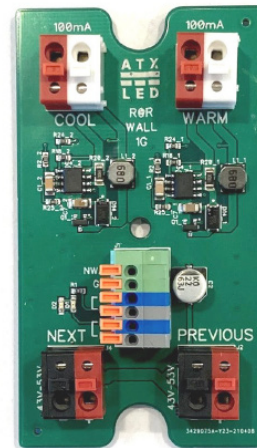
– Protects wires from Rotozip tools, sheetrock mud, and paint

– Provides light during construction before sheetrock

– Verifies all wiring prior to sheetrock

– Saves time at trim

– Optional washable clear lens to allow reuse

– No deformation of the wires

Cover Plate
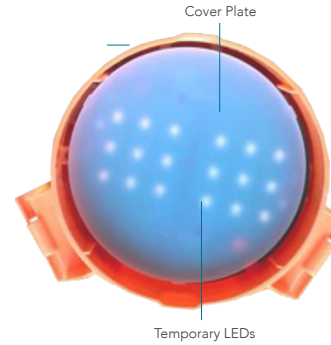
Temporary LEDs

Ceiling Ready-at-Rough Kit
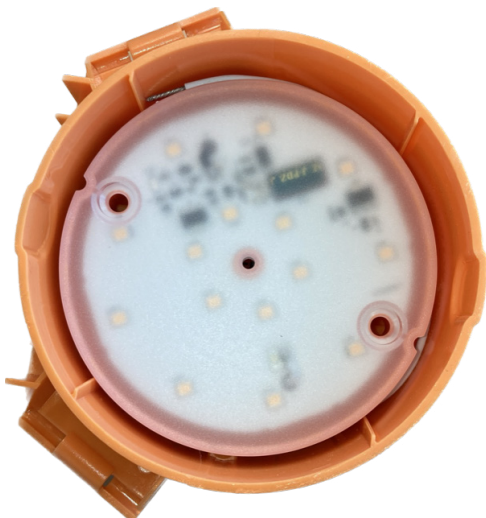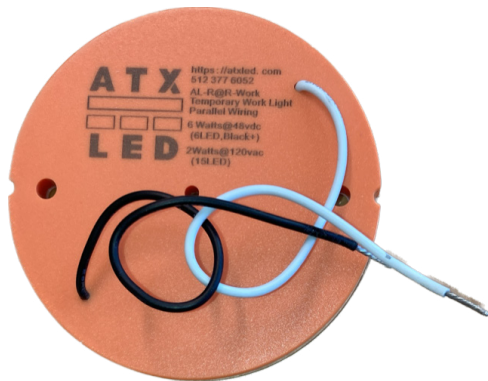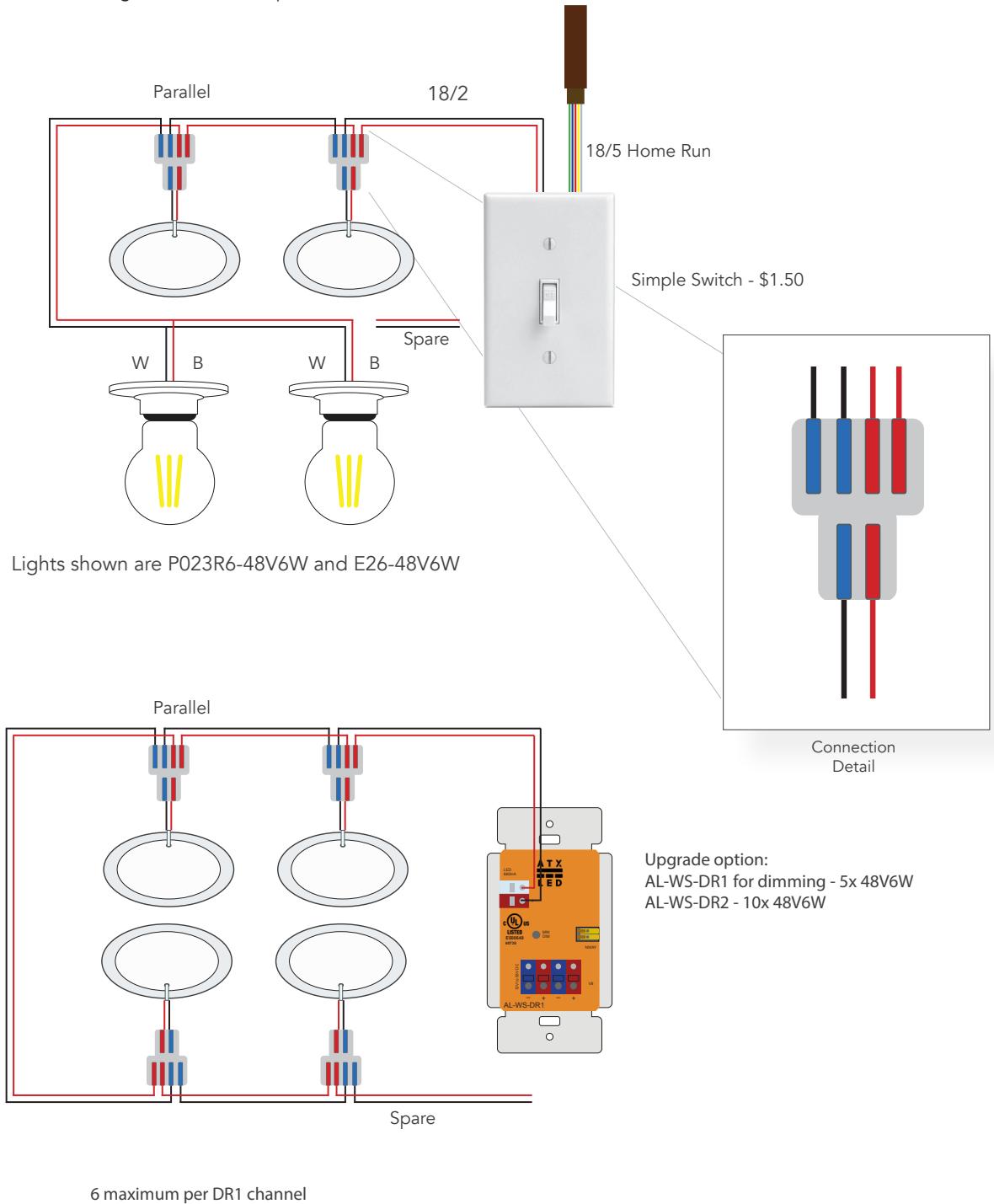
AL-R@R Wall – Temporary Switch

AL-R@R Work – Temporary LED

Wiring Examples

## Lowest-Cost Option: No Dimming - Up to 16 LEDs

The simple switch architecture allows for up to 16 lamps (96 Watts) of lighting from a single switch and single home run. As with all ATX LED systems, it is recommended to run 18/5 home runs. The top example shown here does not support dimming or smart controls, but the use of the 18/5 home run will make future upgrades easy. It is possible to upgrade this circuit to dimming by replacing the simple switch with a AL-WS-DR1 or an AL-WS-DR2 with 5 (or 10) LEDs.

Please note that the 48 V series of lights are wired in parallel.

Parallel   18/2

18/5 Home Run

Simple Switch - $1.50

W   B   W   B

Spare

Lights shown are P023R6-48V6W and E26-48V6W

Connection
Detail

Parallel

Upgrade option:
AL-WS-DR1 for dimming - 5x 48V6W
AL-WS-DR2 - 10x 48V6W

AL-WS-DR1

Spare

6 maximum per DR1 channel

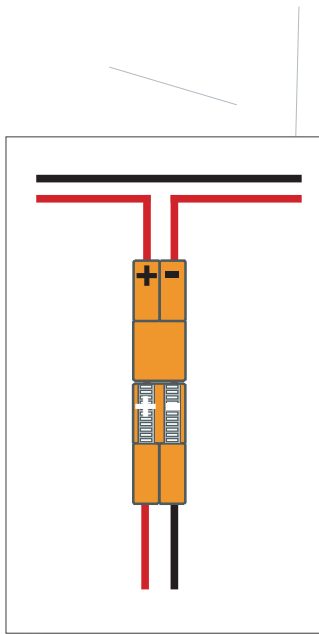## 1 to 4 LED Upgradable Fixed White with Dimming - Model P023R6

If you might be interested in upgrading to Motion or Tunable White LEDs in your system in the future, wire it using this method. Run an additional (unconnected) 18/2 leg from the location of the last LED in the circuit to the available channel on the DR2 or on the DR1 as shown.

Series

660 mA

Spare pair

for upgrades

Connection
Detail
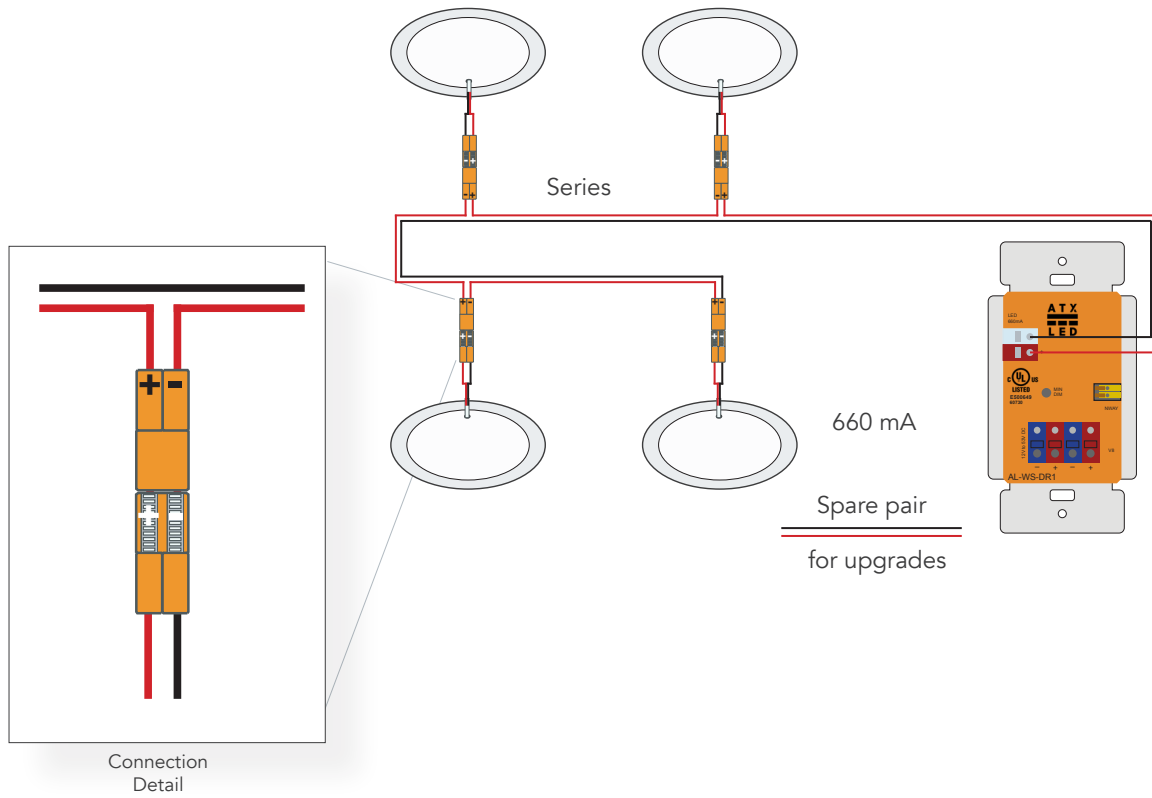
Color Options

2700K	3000K	3500	4000K	5000K

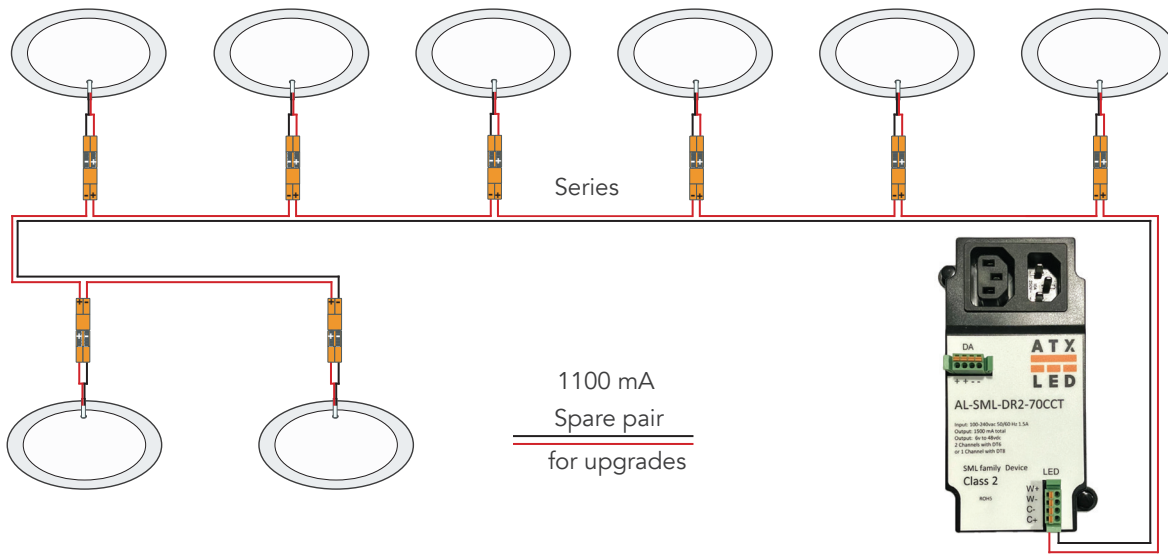## 1 to 4 6-inch LED Upgradable Fixed White with Dimming - Model P02106

If you might be interested in upgrading to Motion or Tunable White LEDs in your system in the future, wire it using this method. Run an additional (unconnected) 18/2 leg from the location of the last LED in the circuit to the available channel on the DR2 or on the DR1 as shown.

Series

1100 mA
Spare pair
for upgrades

6 inch
6 Watts each
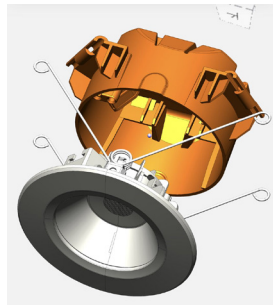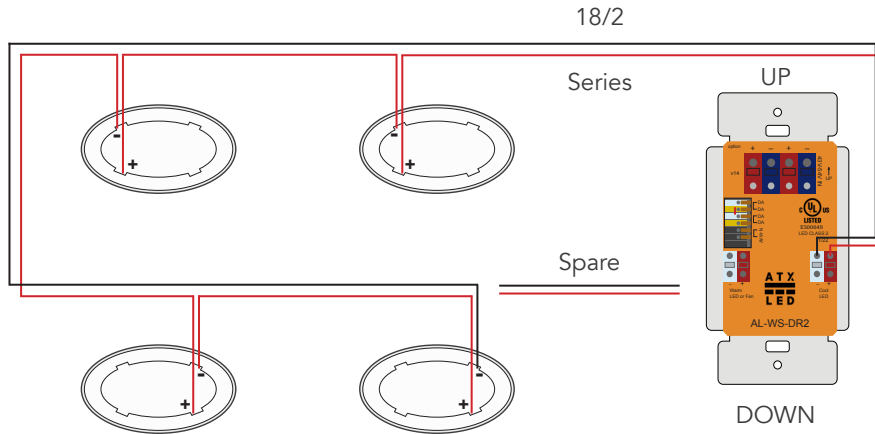
Connection
Detail

Color Options

| 2700K | 3000K | 3500 | 4000K | 5000K |

1 to 4 LED Upgradable Fixed White with Dimming - Model DL-120 (Fixed)

If you might be interested in upgrading to Tunable White LEDs in your system in the future, wire it using this method. Run an additional (unconnected) 18/2 leg from the location of the last LED in the circuit to the available channel on the DR2.

DL-120

Color Options

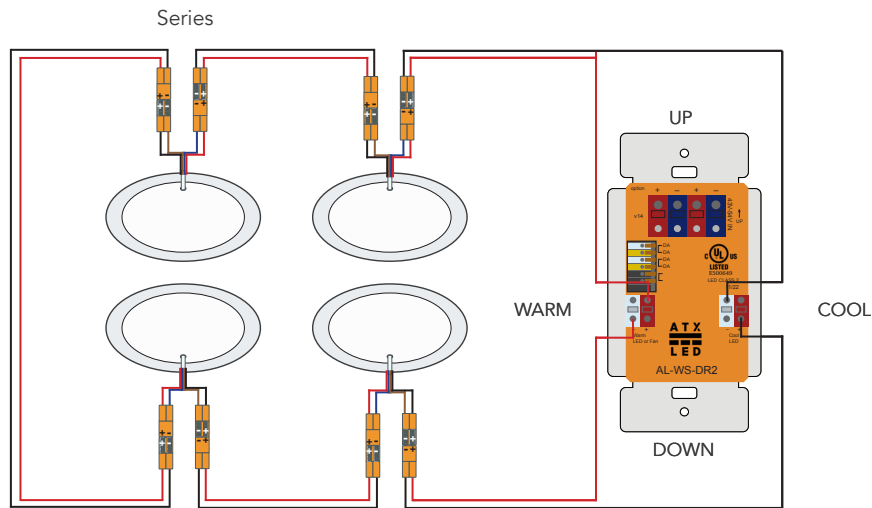| TW	C	F	C	TW
2700K	3000K	3500K	4000K	5000K
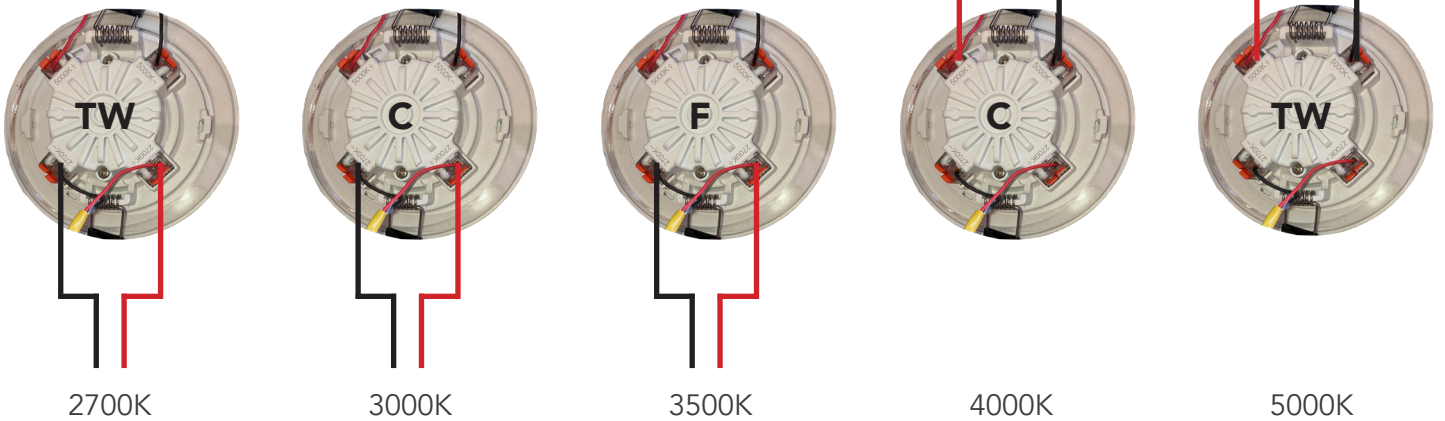
1 to 4 LED Tunable White Circuit - Model P023R6

One to four tunable white fixtures per wall switch. Multiple DALI AL-WS-DR2 for larger rooms can be configured in tandem.

Series

UP

WARM

COOL

AL-WS-DR2

DOWN
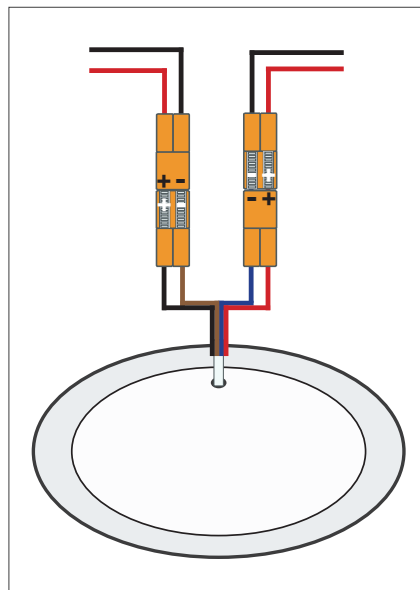
Connection
Detail

P023R6
CCT

1 to 4 6-inch LED Tunable White Circuit - Model P02106

One to four tunable white fixtures per wall switch. Multiple DALI AL-SML-DR2 for larger rooms can be configured in tandem.

Series   18/2

UP

WARM

COOL

DOWN

1100 mA

Connection
Detail

P02106CCT

1 to 4 LED Tunable White Circuit - Model DL-120
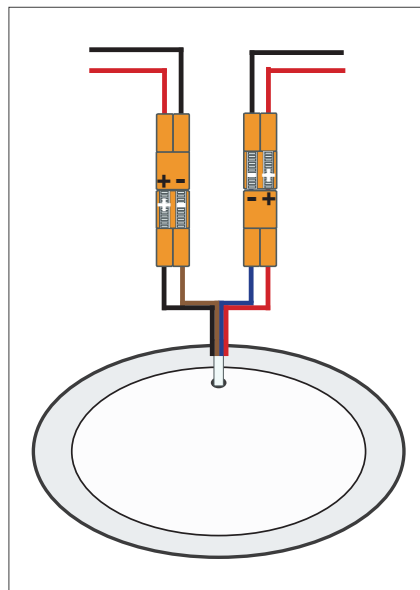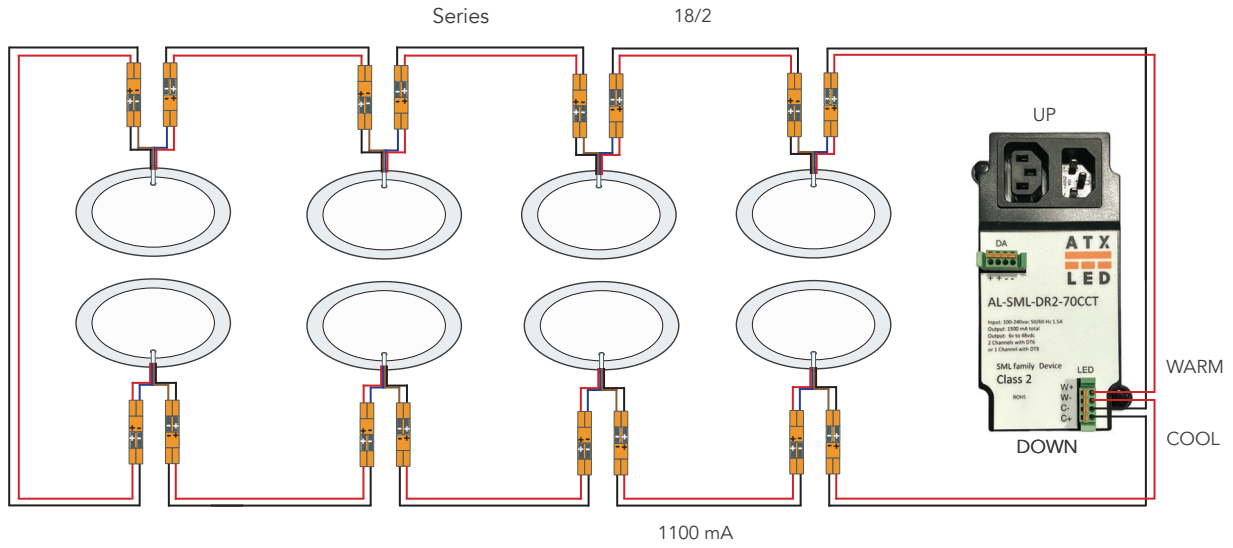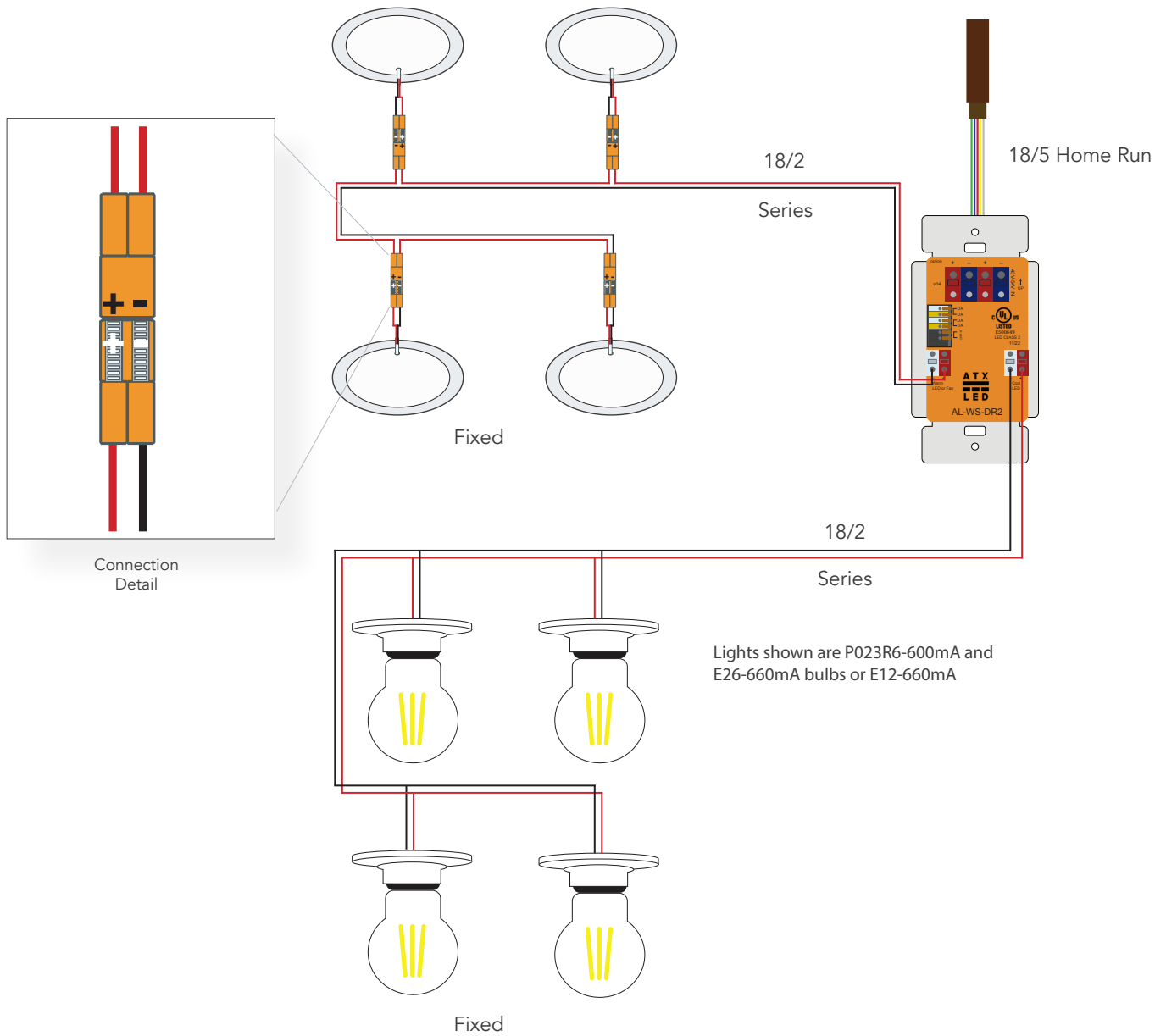
One to five tunable white fixtures per wall switch. Multiple DALI AL-WS-DR2 for larger rooms can be configured in tandem.

Dimmable 1 to 10 LED Fixed White

The example below includes two seperate channels of 1 to 5 LEDs each. Each group of five is connected in series. The red (+) wire first connects to the positive connection of the first LED, then leaves from the negative connector and goes to the positive connector of the next. The idea is that you are making a single series circuit for each channel of LEDs.

Connection
Detail

18/2

Series

18/5 Home Run

Fixed

AL-WS-DR2

18/2

Series

Lights shown are P023R6-600mA and
E26-660mA bulbs or E12-660mA

Fixed

Physical 3-Way (N-Way Connection)
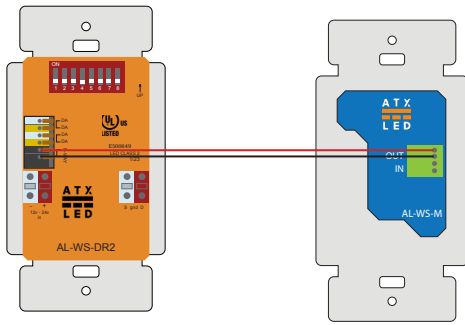
Here are few examples of physical 3-way configuration wiring.

When a 3-way switch is connected, the driver switch automatically detects whether it is a rocker type or momentary type.

Momentary switches can dim the lighting circuit locally, just hold down the switch and the dim level will cycle, release when desired level is achieved.

When used with an AL-WS-DR2, the AL-WS-M can be assigned to control any zone in the house.
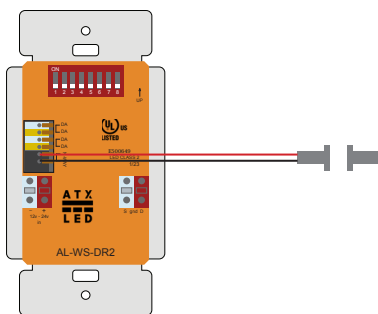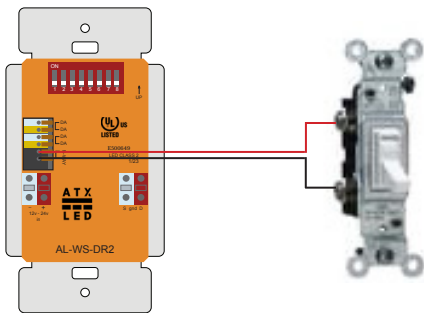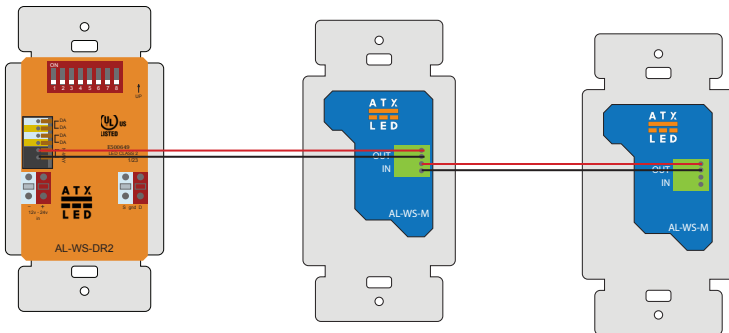
Door jamb switches can be used in the same way. The driver switch will automatically detect it and operate in the appropriate mode.

Tandem Mode (5 to 64 Fixtures) - Synced Multi Switch

Large rooms typically have more than one entry point. A 3-way switch is typically used to allow the lights at each entry point, or door in a hallway, or level in a stairway, to control all the lights. The physical 3-Way switch documented in the previous section handles this very well and at low cost.

In situations where the lighting requirement exceeds the Watts available from one AL-WS-DR2, then Tandem mode is useful. In this mode, two or more DR2 switches operate in unison. The lights can be turned on and off, dimmed or the color changed as one. This mode requires a powered DAbus. The AL-WS-DR2 switches are configured either on-site or off-site for Tandem mode, also known as virtual 3-Way. Once configured, the tandem set of AL-WS-DR2 operate together as long as the DAbus has power - no internet or hub is required. Thus - any large space can be fully operate by DC lighting, in a low cost and simple setup.


TO HUB
DAbus
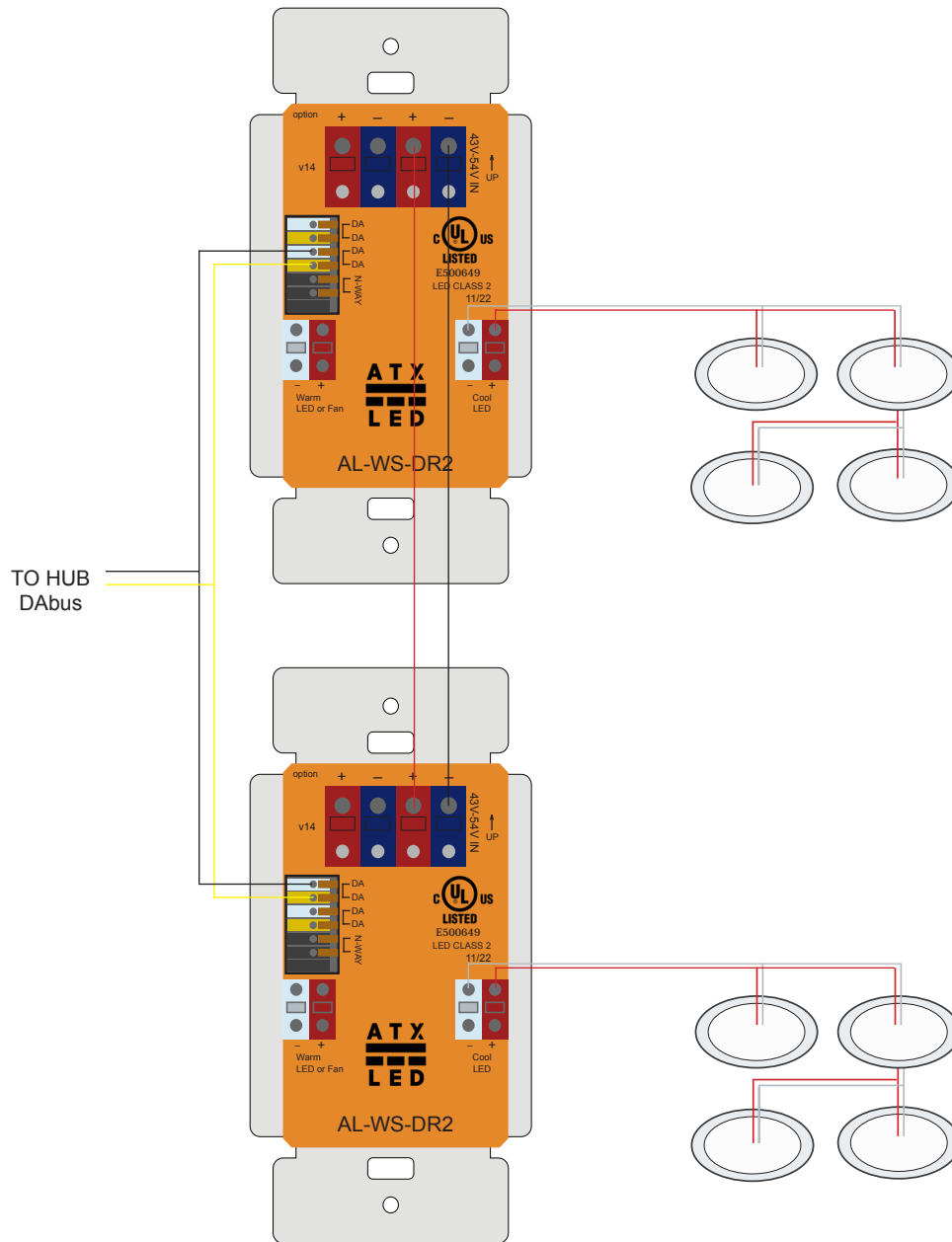
Note: See data sheets for
- AL-WS-DR2
- AL-WS-DR2C

Large Chandeliers

For applications with chandeliers with more than 30 watts of E12 or E26 type bulbs, we recommend a centralized driver with up to 75 or 150 watts. The AL-SML-DR2 and ELG-150-48vDA provide 70 and 150 watts, and are DAbus compatible.

These are installed in the central low voltage cabinet , and a home run of 18/2 provides the power. Control is via the DAbus with either ATX LED wall switch like the AL-WS-8B (8 button configurable on/off/dimming wall switch), the AL-WS-DALI, any N-way connected switch, or via the ATX LED hub.

The fixture shown in this photo has 18 bulbs of the E12 type. We use the parallel wiring native to this fixture, and power it with the remote DC driver.

AWG18/2
75 ft

AL-WS-8B

AL-WS-DALI

DAbus
AWG18/2

8B Face Options
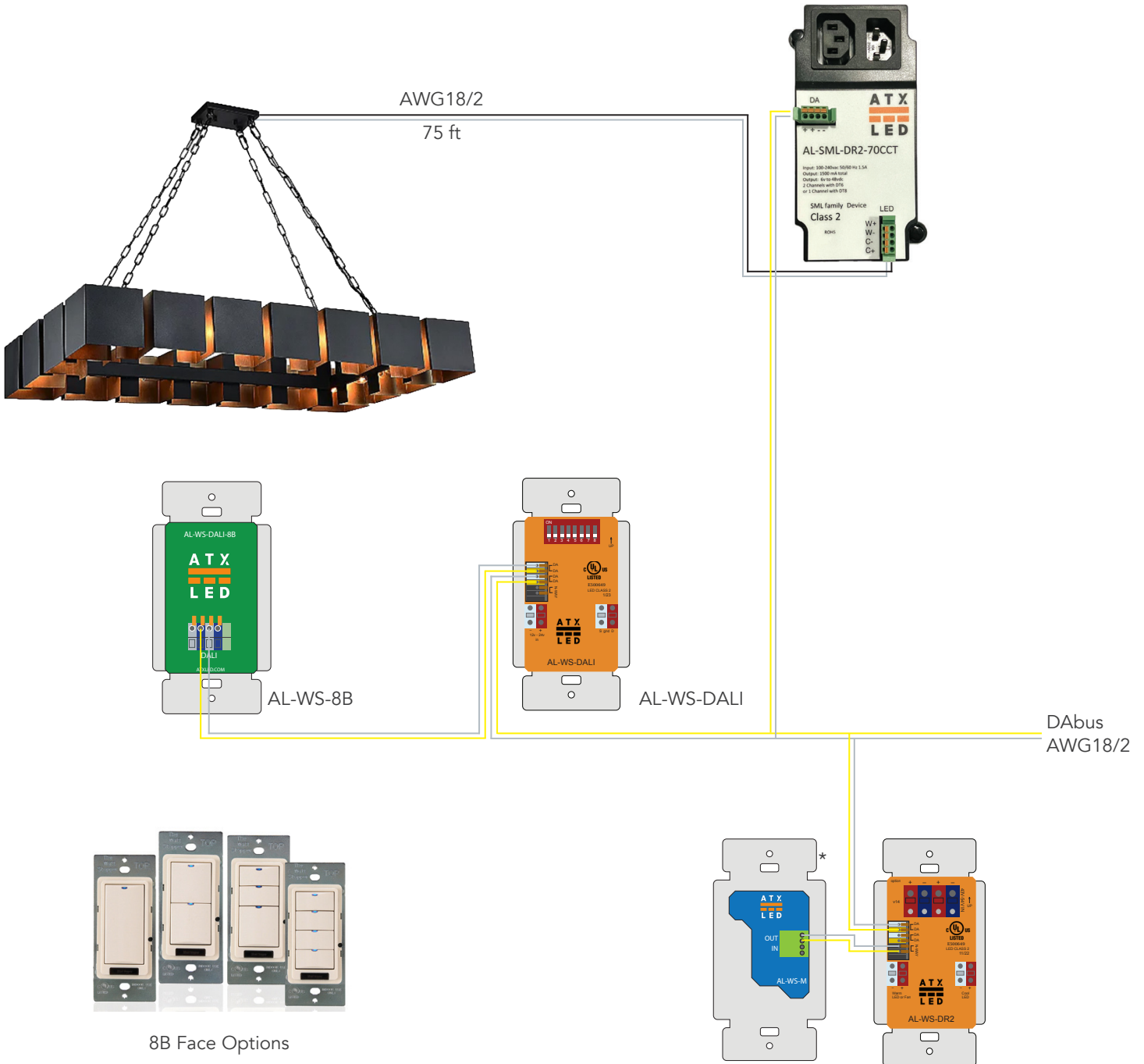
* AL-WS-M can control any DALI address.
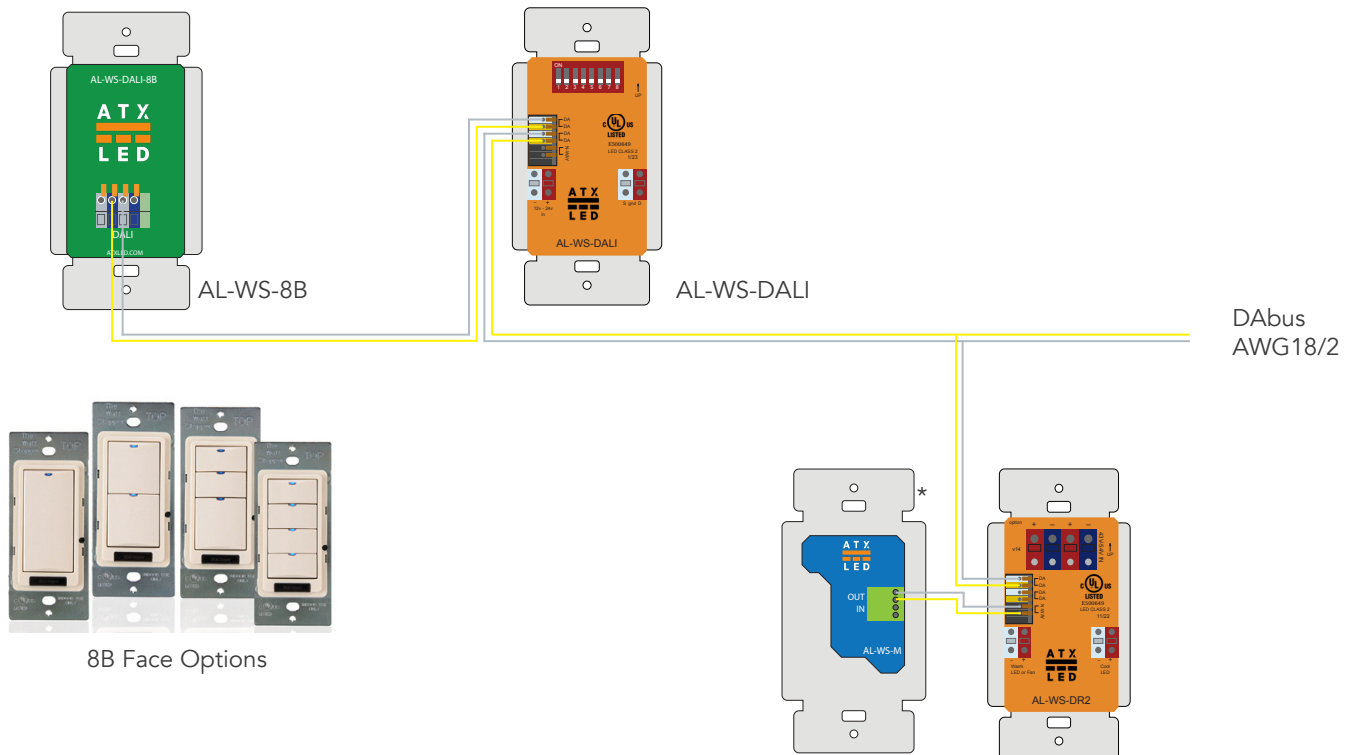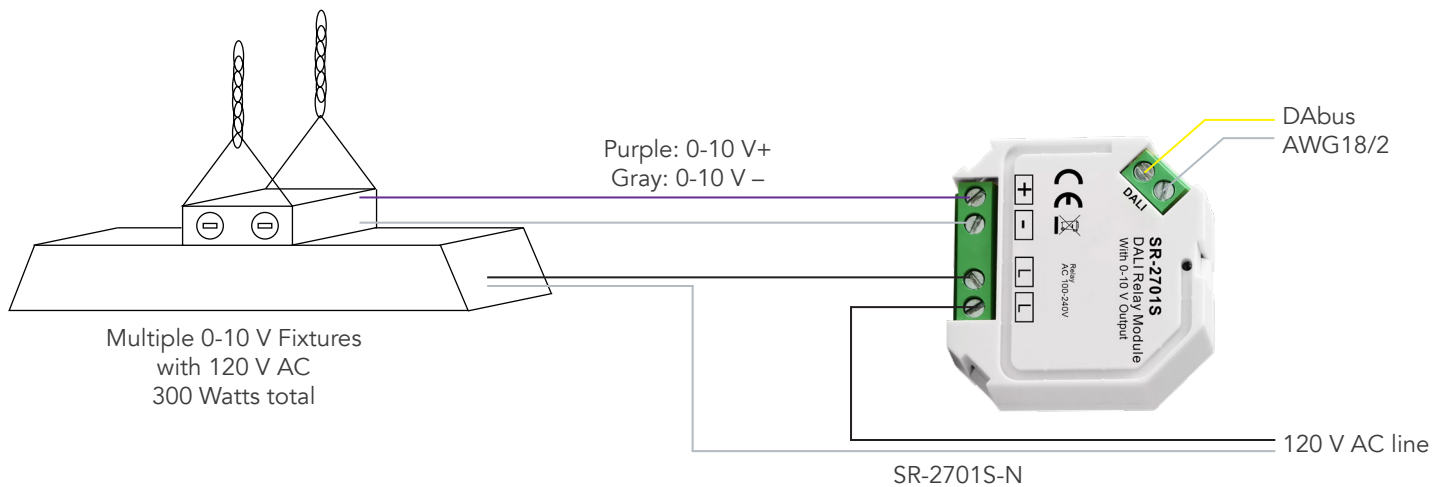
Other Installation Types

Commercial Applications: 0-10 V Controls

Our DR2 delivers 50 Watts per switch. Some cases, however, call for much more lighting power per switch.

High power lighting products are powered by AC. Manufacturers offer control by 0-10V violet and grey wire pair. This pair is used to control the on/off/dim functions of the lamp.

To interface this type of fixture with the ATX-LED system, simply wire the 120v power as with conventional, but run the violet/grey pair to either the AL-WS-010V or the SR-2701S switch.

Please note that "0-10V" is a classification of dimming method. There are actually two sub-types of "0-10V." One being the "0-10V" and the other being "1-10V." The difference is that with 0-10V fixtures, the switch can only dim the lamp, whereas with a 1-10v fixture the switch can completely shut off the lamp. If 0-10v fixtures are being used, there will have to be a 120v switch to completely shut off the lighting. Therefore, use 1-10V only. With the AL-WS-010V, the SR2701S allows both 120 VAC, 0-10V On/Off, and dimming.

Purple: 0-10 V+
Gray: 0-10 V −

DAbus
AWG18/2

Multiple 0-10 V Fixtures
with 120 V AC
300 Watts total

120 V AC line

SR-2701S-N

AL-WS-8B

AL-WS-DALI

DAbus
AWG18/2

8B Face Options

* AL-WS-M can control any DALI address.

Commercial Applications: DALI Controls of 120 VAC Devices

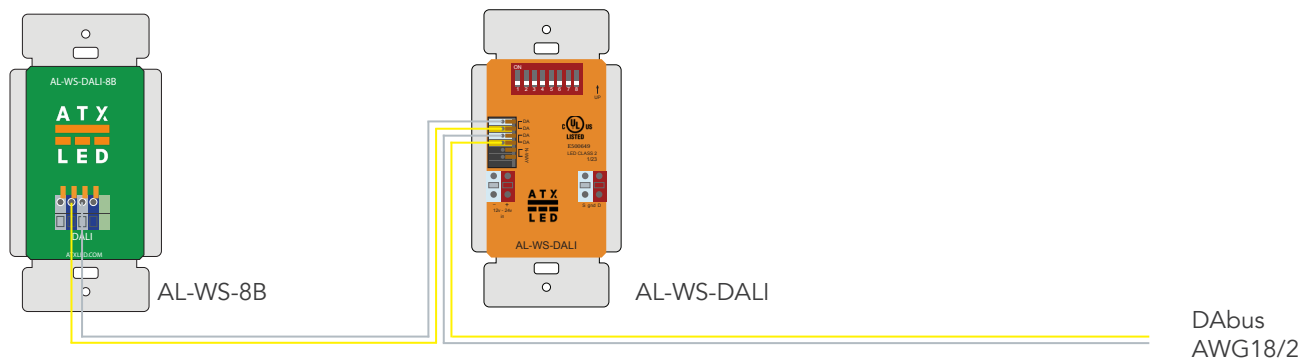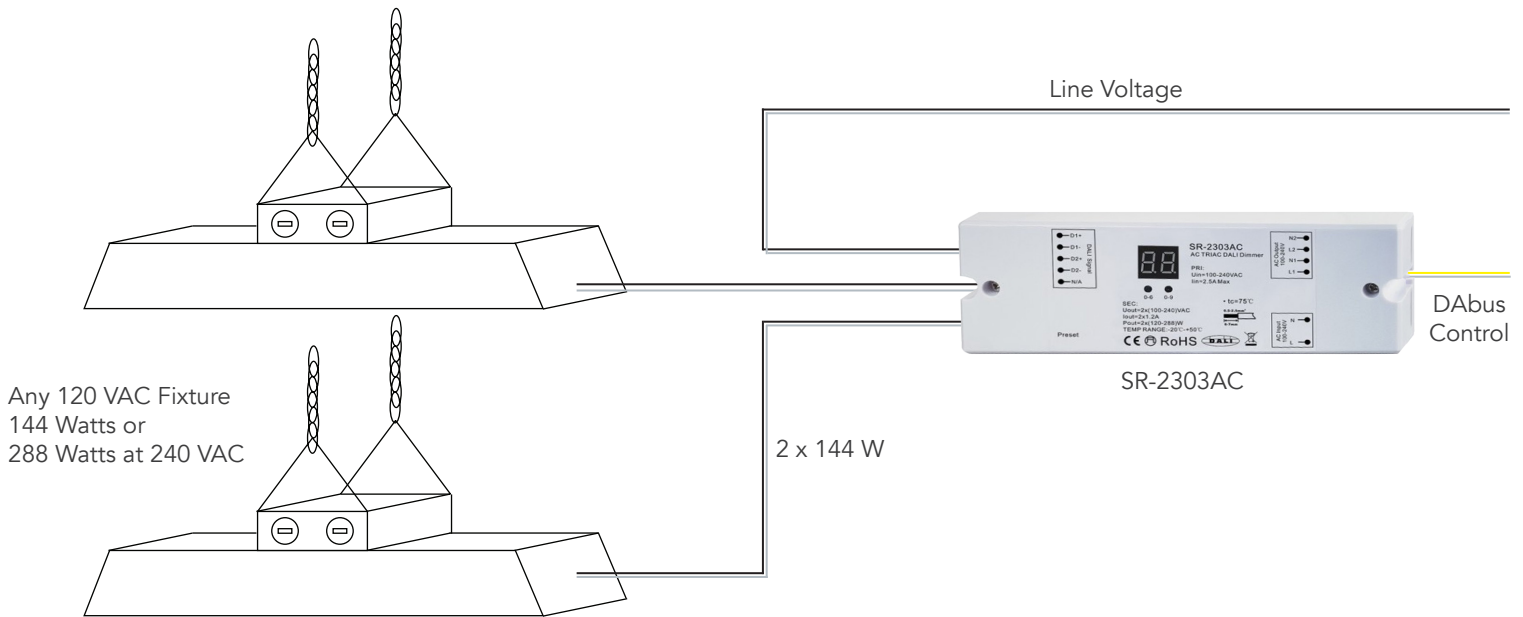Our DR2 delivers 50 W per switch, 100 W per home run.

Some cases, however, call for much more lighting power per switch.

High power lighting products are powered with 120 or 240 V AC.

Many manufacturers offer control by a DALI wire pair. This pair is used to control the on/off/dim functions of the lamp, drivers not made by ATX LED. One pair can connect to many fixtures, greatly simplifying the installation.

To interface this type of fixture with the ATX-LED system, simply wire the AC power as with conventional, but run the violet/grey DALI pair to the ATX LED DAbus and to any of our DAbus products, including the AL-WS-8B.

This will enable all smart features like remote dimming, schedule, max and min brightness, scenes and groups.

Line Voltage

SR-2303AC

DAbus Control

Any 120 VAC Fixture
144 Watts or
288 Watts at 240 VAC

2 x 144 W

AL-WS-DALI-8B

AL-WS-8B

AL-WS-DALI

AL-WS-DALI

DAbus
AWG18/2

8B Face Options

LED Light Strips

Wire strip lights to any of our DR2 switches in a similar manner to our other LEDs. 24v strip lights are the most common on the market and they work well with DR2s. Take care to follow the wattage rules - 24watts per channel. For fixed color, used up to 8ft or 24 watts on each channel. For Tunable White, use 2 different color temperature strips of your choice and wire it the same way, but with the selecter on the switch set to "CCT".

CCT/Fixed color temp - P023S2

AL-SL-42V-1.5W
Tunable white
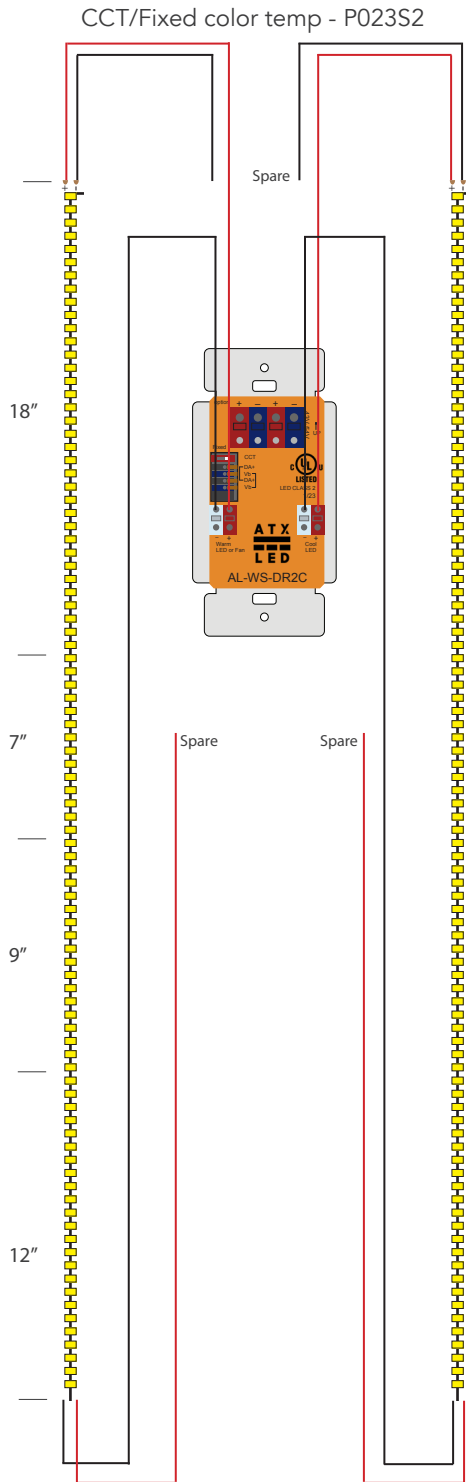
DR2

- **Strip Light Options**
  A) 2 W/ft, up to 30 ft fixed or 15 ft tunable
  B) 4 W/ft, up to 15 ft fixed or 7.5 tunable. Use tandem mode for longer runs
  C) 1.5 W/ft, 24 V - 24V x 2 wired in series

- **AL-SML-DR2-75CCT**
  This driver is installed in the low voltage box for strips up to 75 Watts each. Any W/ft model from ATX LED can be used, any length can be used--max wattage is distributed over the length.
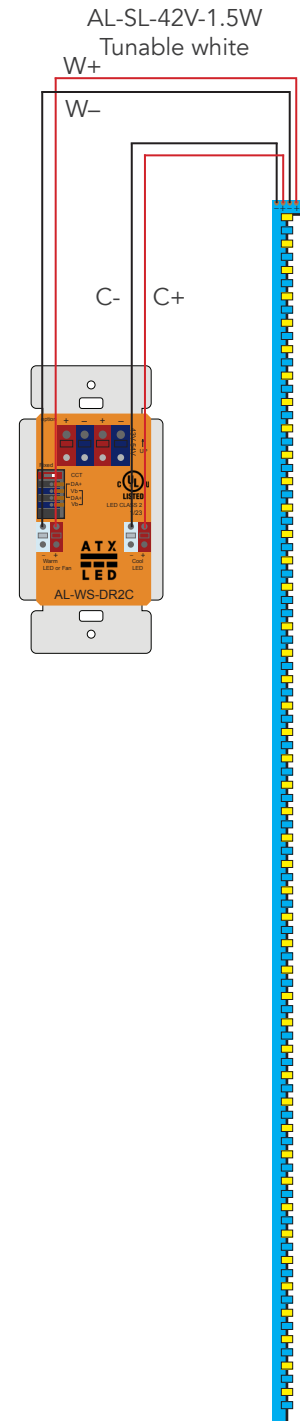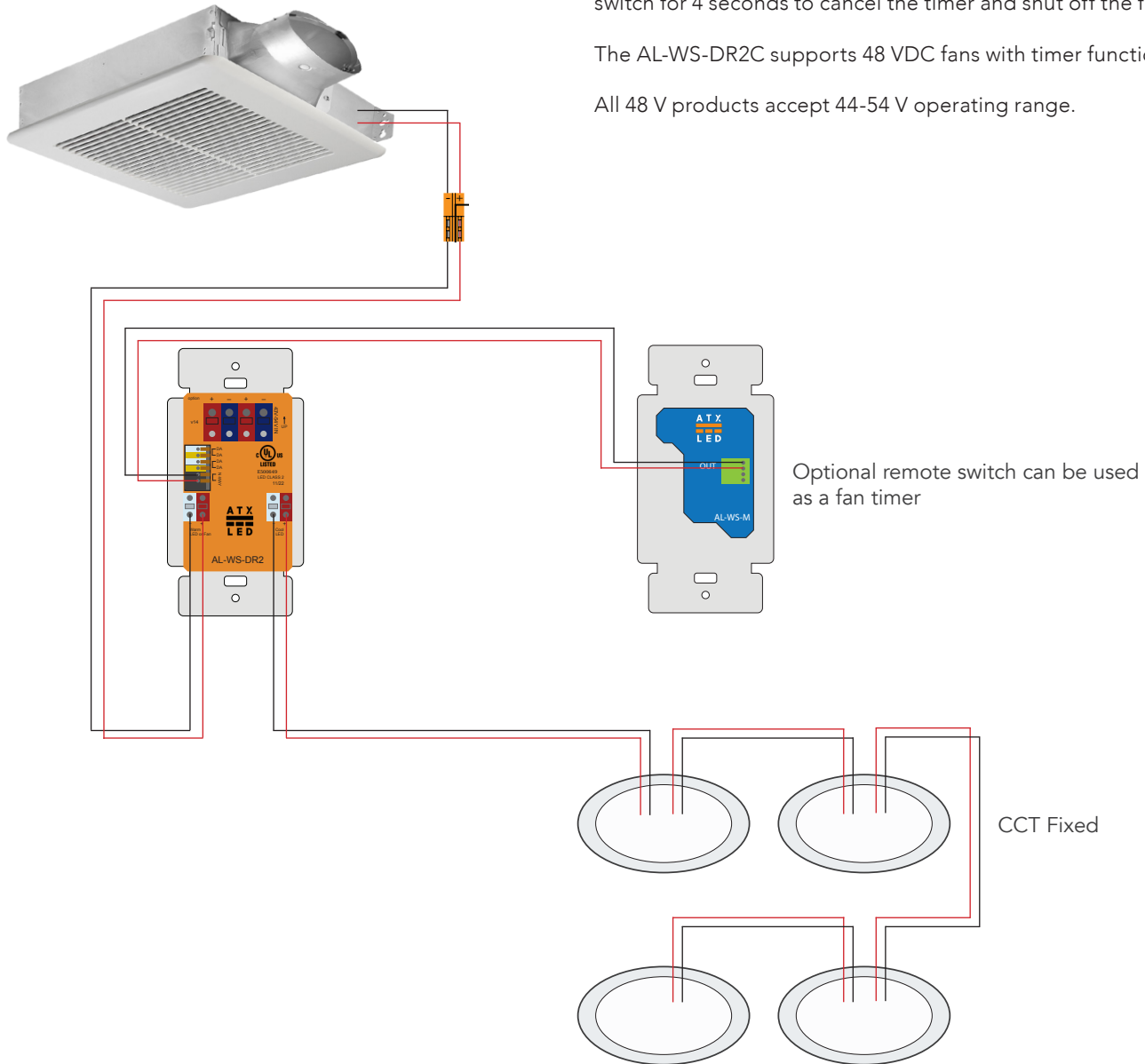
Bathroom Lights Plus Smart Exhaust Fan (12 V or 48 V)

The AL-WS-DR2 is also used for bathrooms. It has the capability of running a 12 V DC bathroom fan and up to 24 Watts of LEDs. The switch may be used standalone or with a AL-WS-M remote switch.

When the remote switch is used, every time the momentary switch is engaged, the bath fan will run for 5 minutes and an additional 5 minutes will be added for each button press. Press and hold the switch for 4 seconds to cancel the timer and shut off the fan.
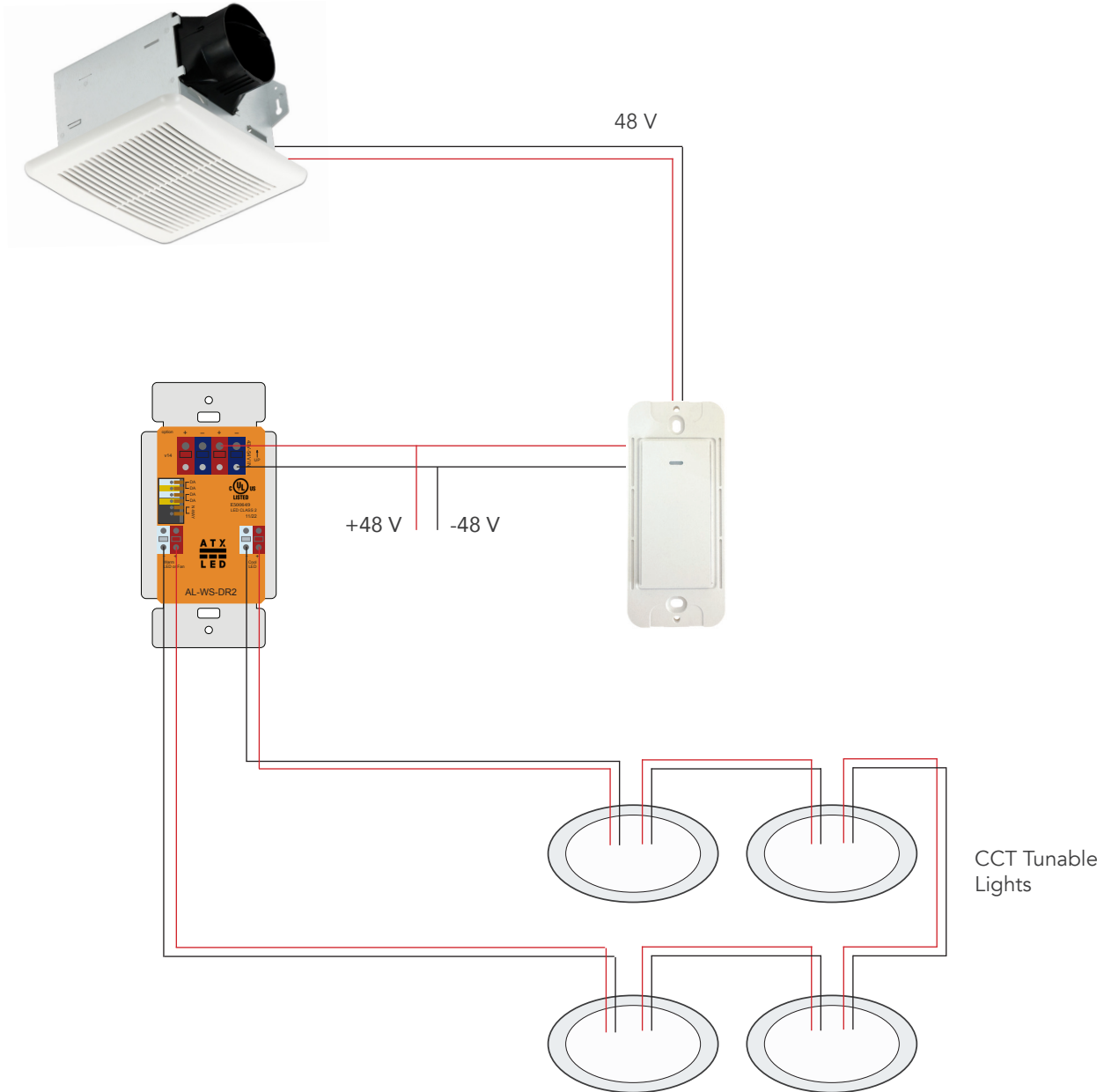
The AL-WS-DR2C supports 48 VDC fans with timer functions.

All 48 V products accept 44-54 V operating range.

Optional remote switch can be used as a fan timer

CCT Fixed

Bathroom Lights Plus Smart Exhaust Fan (48 V)

Simple ON/OFF control of a 48 V fan is done with a smart or simple switch.

48 V

+48 V   -48 V

AL-WS-DR2

CCT Tunable Lights

Vacancy/Occupancy for Bathrooms, Utility, Stairs

The P023R6-M fixture is used for bathrooms and other rooms where automatic turn off is a requirement.

It will turn a fixture on with the dimming level desired, and will dim up softly to allow the eyes to adjust. At the end of the occupancy detection, the light will dim down again. The timing and sensitivity can be adjusted. A manual override switch is provided.

The device drives 30 Watts of LEDs of fixed color LEDs directly, and may be used standalone or with a AL-WS-M remote switch for 3-Way controls. It can also be used to control tunable white drivers such as the AL-WS-DR2, and is a fully managed switch within the ATX LED DAbus and controlled by ZWD if desired.
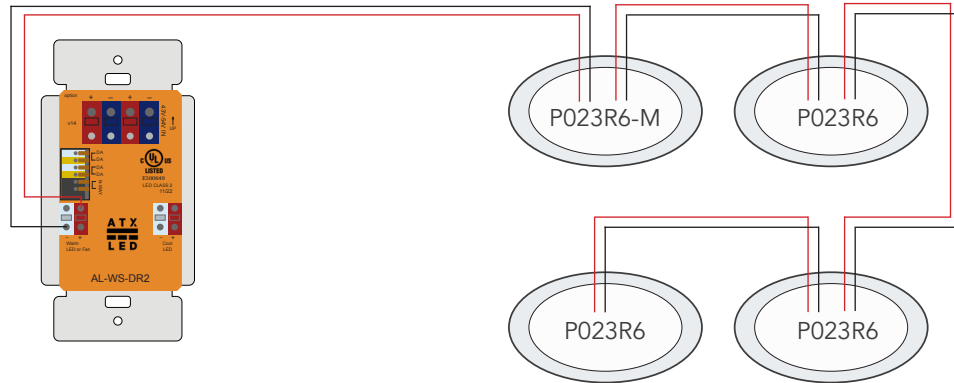
Three Methods of Motion Sensor Wafer

1. 48 V non-dimming (Value)
2. 660 mA dimming
3. 660 mA tunable white

See data sheet for more information.

DALI™

Digital
# **A**ddressable
Lighting
Interface

Where the WiFi option allows control of select switches, the DALI™ system allows for whole-home control.

This is the highest-end option for new homes.

The ATX-LED DALI™ system can be compared to Control 4, but much more cost effective.
At the high end, DALI™ works with Crestron and Control 4.
Easier to install than other options because our DALI™ system does not require multiple cat5 terminations.
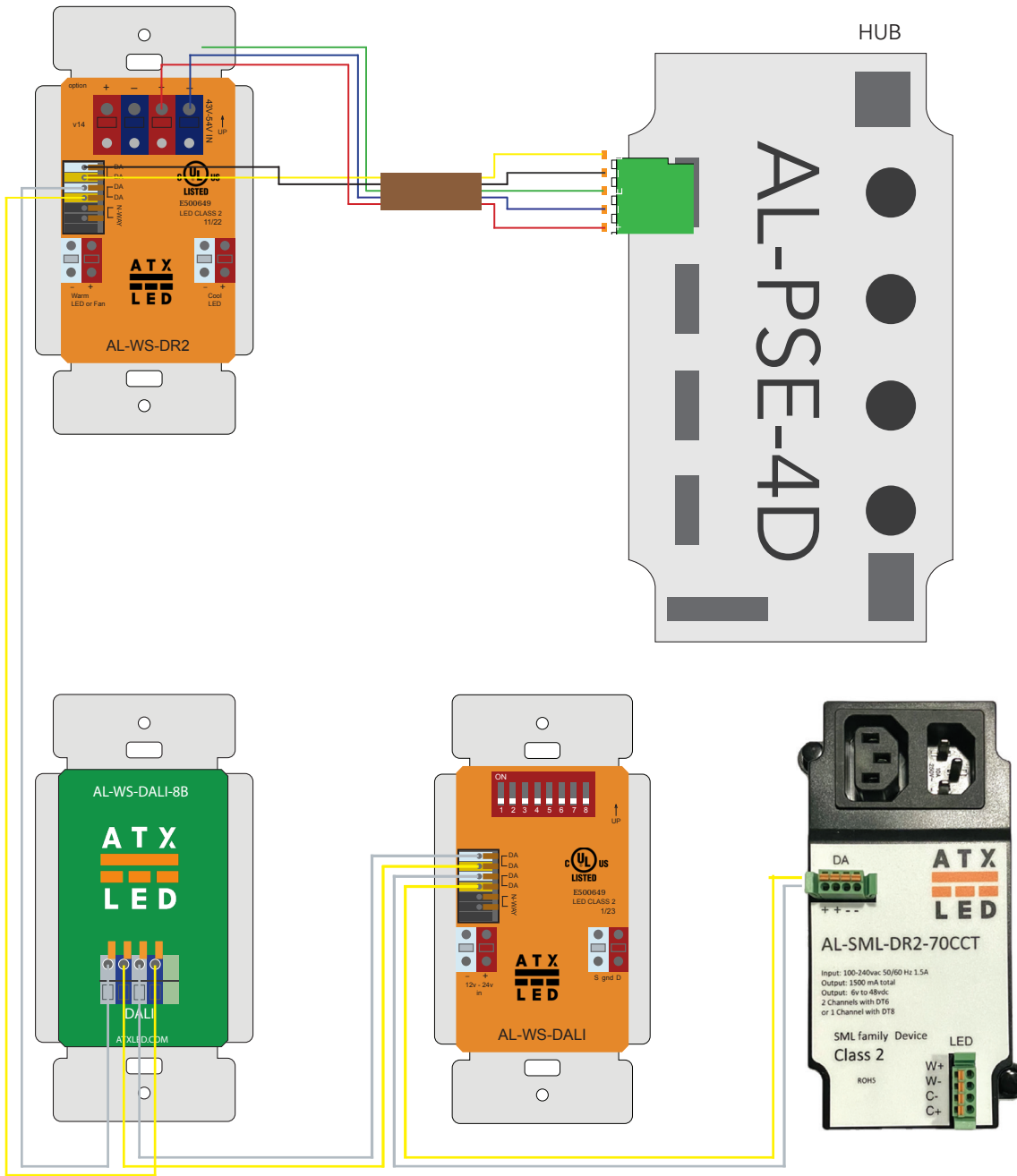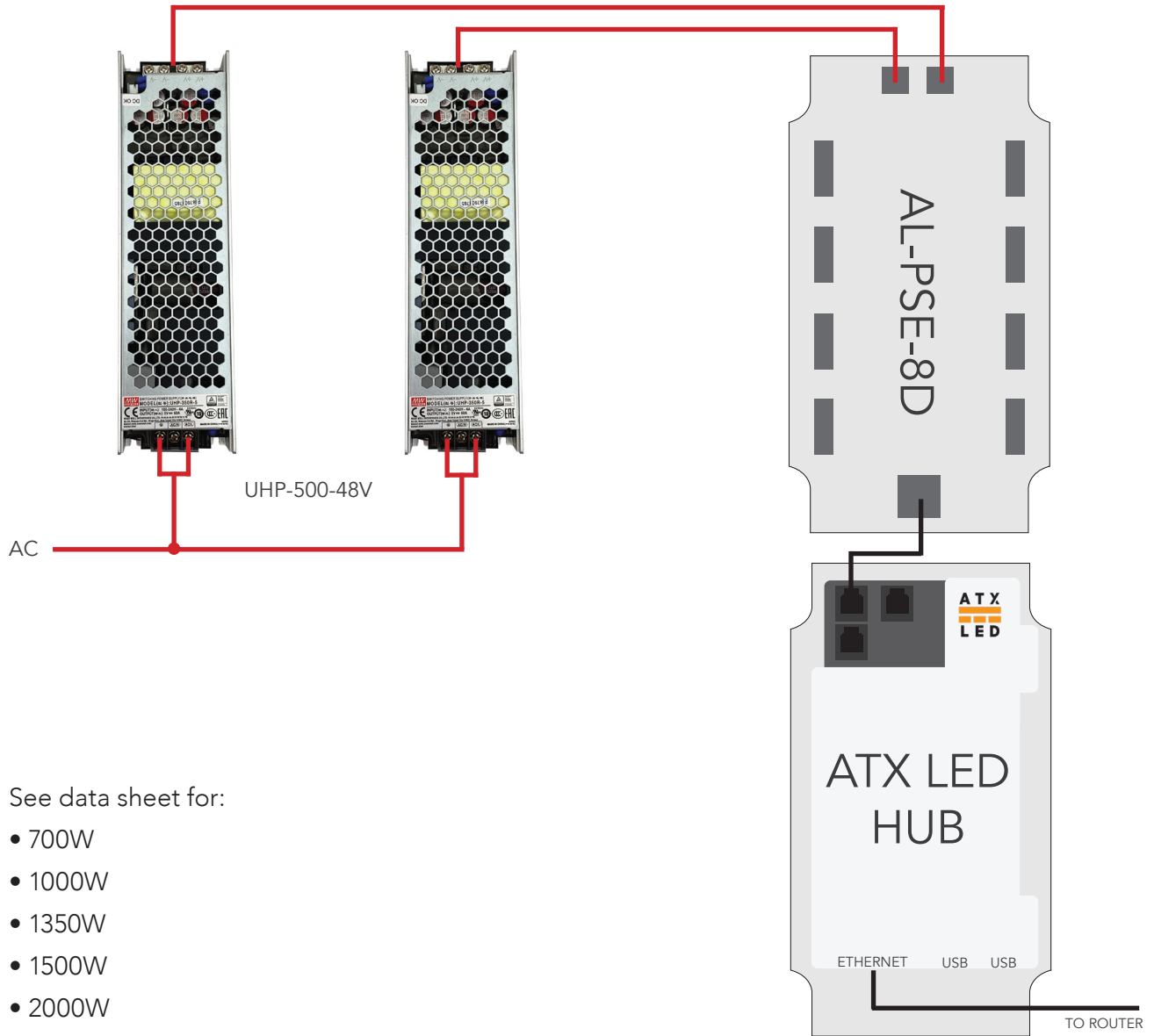
DALI for App Control

DALI power architecture is similar to that of the standard system, with just a few differences. In this case, we use the AL-PSE-4D as our power distribution board. The "brain" of the system, the AL-DALI-Pi, is connected directly to the AL-PSE-4D via a non-Ethernet RJ-45 jumper connection.

DALI as a DIIA trademark for the IEC62386 standard. For more information, please visit https://atxled.wiki.zoho.com/public/ZWD-Control-Suite.html.

Actual wire is white
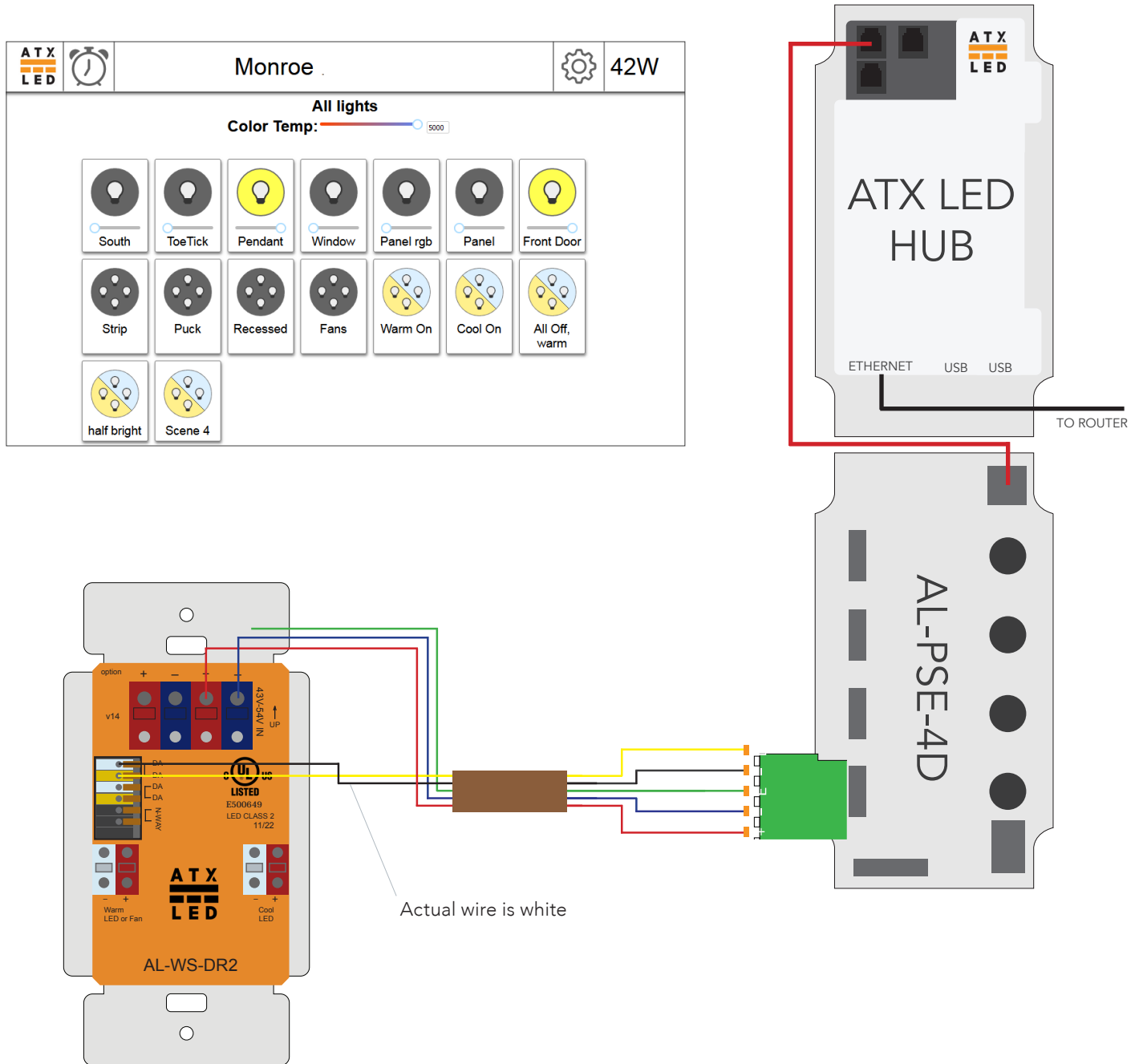
Large System with AL-PSE-8D

For systems over 600 Watts, the AL-PSE-8D can be used as shown.

UHP-500-48V

AC

AL-PSE-8D

ATX LED HUB

ETHERNET   USB   USB

TO ROUTER

See data sheet for:

- 700W
- 1000W
- 1350W
- 1500W
- 2000W

USB   USB

ATX
LED

Ceiling Fans

Motor Control with AL-WS-CARRO

The AL-WS-CARRO is designed specifically for local control of the Speed and Direction of the Ceiling fan. 3 wires connect it to the Ceiling fan, and it is powered by the fan. Press the button to turn On/Off. Press and hold to change direction. Move the slider for speed.

Light Control with AL-WS-DR2

The AL-WS-DR2 smart DALI switch offers power for 12 or 24 Watts of perfect dimming to CCT adjustable LEDs or 48 watts to fixed color. Use the ATX Hub to link to Alexa, Google and other services, use the DALI bus for 3-way controls. DR2 can control standard lights and ceiling fan lights,

Local 18/5

AL-PSE-4D

AL-WS-CARRO

Home Run 18/3

Local 18/7

AL-PSE-4D

AL-WS-DR2

AL-WS-CARRO
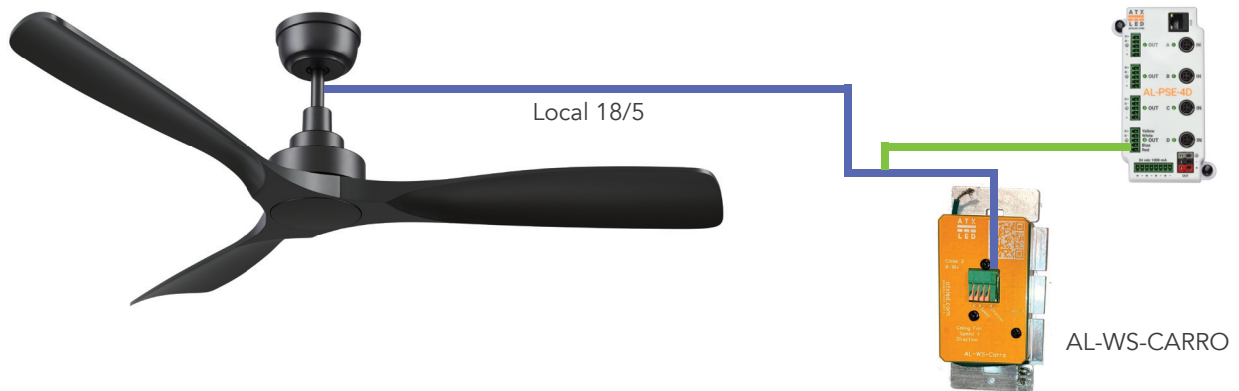
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info@atx-led.com

**ATX
LED**