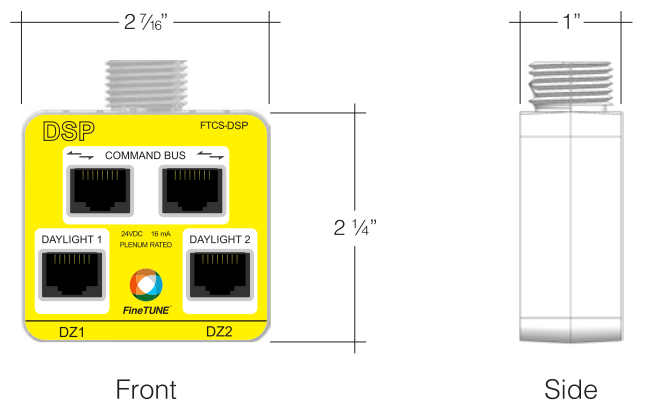


Specifications

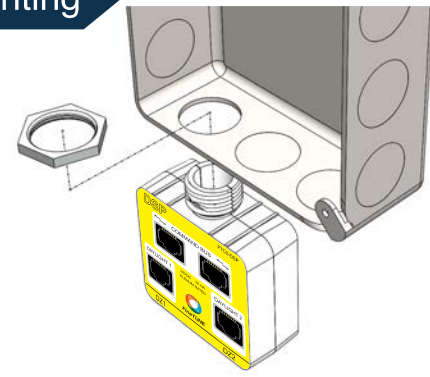
- Low Voltage Device
- Power: 16mA @24VDC
- Plenum Rated (UL2043)
- 5 Year Warranty

1 x Conduit Nut

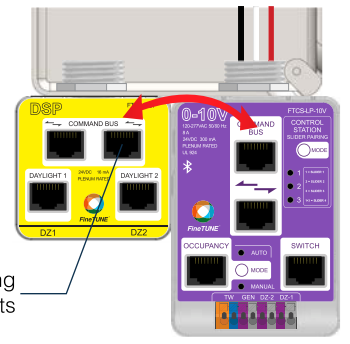
Visit our website for more information:
finelite.com/products/finetune-tcs



Mounting



Place the Daylight Sensor Pack through a 3/4" knockout and securely fasten conduit nut.



Connect using Command BUS Ports

Connect the Daylight Sensor Pack to a Layer Pack using CAT5 to provide power and allow for Daylight Sensor data to pass through to all connected devices.

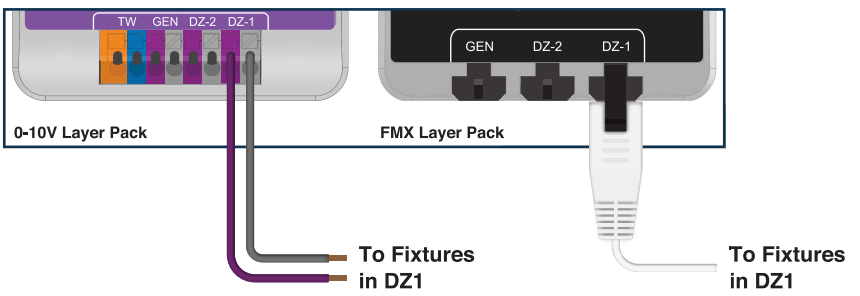
Connections & Outputs

Only one (1) Daylight Sensor Pack shall be used per space. A single DSP communicates across all devices on a shared BUS.

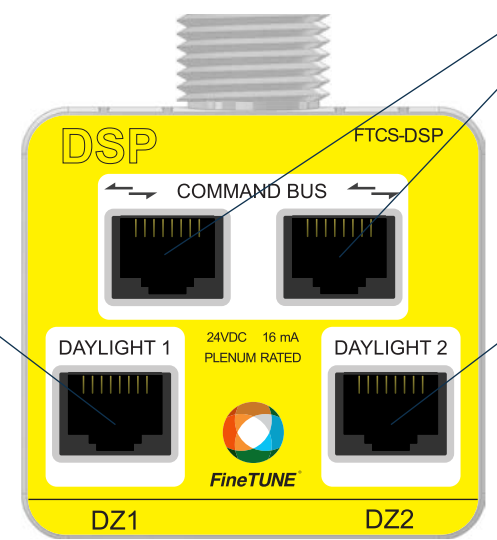
The Command BUS is bi-directional, the Daylight Sensor Pack can be added anywhere along the BUS to join it to the system.

Daylight 1 Port - DZ1 (Daylight Zone 1)

- Use this port to connect a Daylight Sensor meant for dimming light fixtures connected to the DZ1 output of the Layer Pack(s).
- The Daylight Sensor Pack will communicate the daylight information to all of the Layer Packs sharing the same BUS.



- Daisy chain connections to all fixtures falling within Daylight Zone 1. All fixtures connected will dim according to the amount of daylight the Daylight Sensor connected to DZ1 is measuring.



See back page for connections to Daylight Sensors

Note:
A switch or control station will not raise the light intensity of a Daylight Zone past the level reduced by the Daylight Sensor.

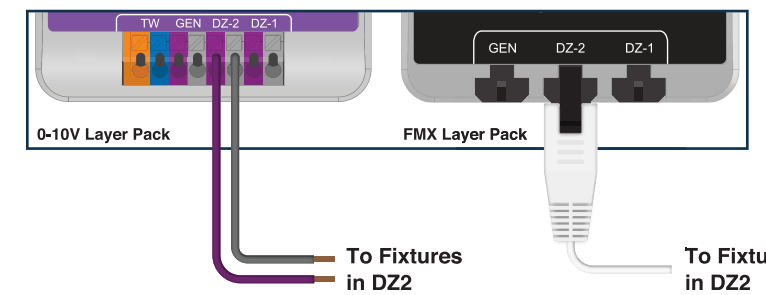
Command BUS Ports

Connect to the other BUS devices using the Command BUS ports. Example Configurations:



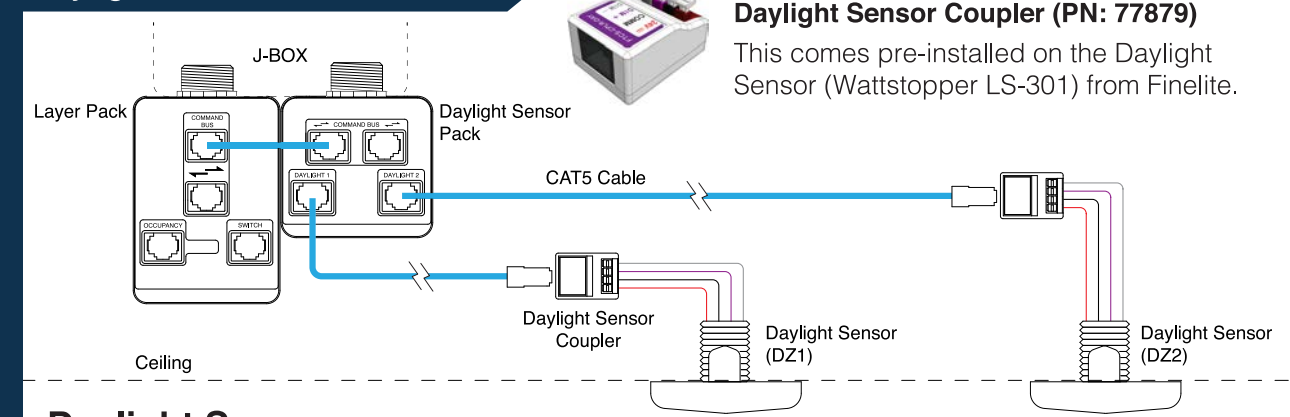
Daylight 2 Port - DZ2 (Daylight Zone 2)

- Use this port to connect a Daylight Sensor meant for dimming light fixtures connected to the DZ2 output of the Layer Pack(s).
- The Daylight Sensor Pack will communicate the daylight information to all of the Layer Packs sharing the same BUS.



- Daisy chain connections to all fixtures falling within Daylight Zone 2. All fixtures connected will dim according to the amount of daylight the Daylight Sensor connected to DZ2 is measuring.

Daylight Sensor Connections



Daylight Sensor Coupler (PN: 77879)
 This comes pre-installed on the Daylight Sensor (Wattstopper LS-301) from Finelite.

Daylight Sensors

Finelite provides Wattstopper **LS-301 (PN: 58029)** closed loop Daylight Sensors:
<https://www.legrand.us/wattstopper/daylighting-controls/daylighting-sensors/ls-301.aspx>

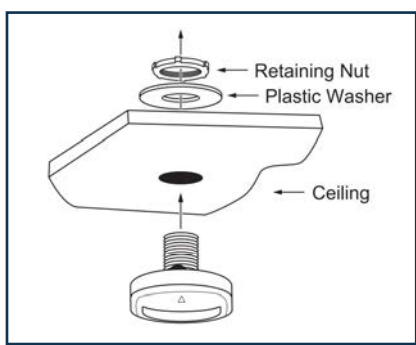
Power: 30mA @24VDC
 Protocol: 0-10VDC

The Wattstopper LS-301 with the Daylight Sensor Coupler attached (**PN: 77766**).
 A Wattstopper **LSR-301-S (PN: 58036)** is required to set up each LS-301 Daylight Sensor.

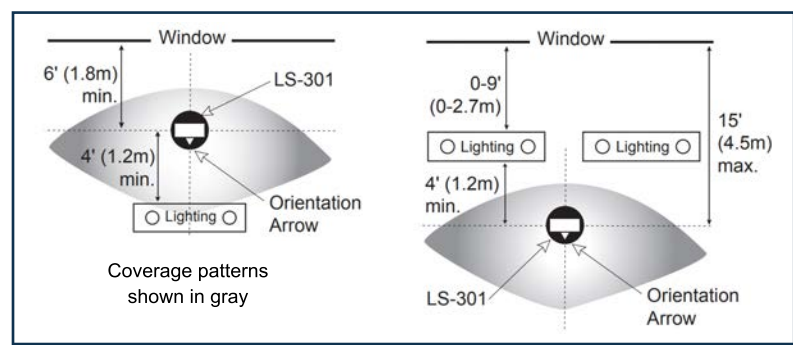
Daylight Sensor setup is not performed by Finelite.

See instructions in daylight sensor box for more details.

Daylight Sensor Mounting



Standard drop ceiling mounting. Cut a 13/16" hole in the ceiling tile where the daylight sensor is to be mounted.



Placement for applications where lighting fixtures are outside of 10 feet of daylight source.

Placement for applications where lighting fixtures are within 10 feet of daylight source.

Daylight Sensor Setup

The Daylight Sensor must be adjusted under **Night** and **Day** conditions. Either adjustment may be completed first. The Daylight Sensor begins automatic dimming control after both adjustments have been completed.

Initial adjustments to the LS-301 are done using the LSR-301-S remote control. The LSR-301-S has 5 buttons. The LED on the remote control should light every time you press a button. The red LED on the LS-301 also flashes for the duration of the press.



LSR-301-S

- ▲ Press to raise the intensity of the lights.
- ▼ Press to lower the intensity of the lights.
- Night:** Press to begin and end the Night adjustment.
- Auto:** Press to begin automatically dimming the lights.
- Day:** Press to begin and end the Day adjustment process.

Target Illuminance Levels

The **Night** illuminance level must always be higher than the **Day** level. Otherwise, the amber LED on the LS-301 flashes to indicate an invalid setpoint. The amber LED will flash until both levels are properly adjusted.

Use a light meter to measure light levels. Choose a reference location that is most likely to have the lowest light level when daylit and is located farthest from the window or skylight. Use this reference location for all illumination readings for that space.

Night Adjustment

Make this adjustment when there is less than 2 footcandles of daylight illumination at the reference location. Switch off the controlled lights and measure the level to make sure it is less than 2 footcandles.

1. Press the **Night** button once. The red LED on the LS-301 will flash.
2. Press ▲ or ▼ to adjust light level. Use a light meter to measure the level.
3. Once the target level has been reached, press and HOLD the **Night** button for 3 seconds. The LS-301 will acknowledge the setting of the **Night** target setpoint by lighting the red LED twice for 3 seconds each time.

Do not cover the Daylight Sensor to try to recreate Night adjustment mode. This mode is meant to measure the designed electric light for the space. It requires a light measurement to be set up properly.

Day Adjustment

Make this adjustment when there is enough daylight to provide 40% to 90% of the target light level. For example, if the target is 40 footcandles, make this adjustment when the daylight contribution is between 16 and 36 footcandles.

1. Press the **Day** button once. The red LED on the LS-301 will flash.
2. Press ▲ or ▼ to adjust light level. Use a light meter to measure the level.
3. Once the target level has been reached, press and HOLD the **Day** button for 3 seconds. The LS-301 will acknowledge the setting of the **Day** target setpoint by lighting the red LED twice for 3 seconds each time.

Troubleshooting & Technical Support

If the Daylight Sensor seems to be unresponsive after setting both adjustment points, select **Night** and hold the ▲ arrow until you see the red blinking light return. If this does not unlock the sensor, select **Day** and hold ▼ until you see the red blinking light return. Repeat the **Night** and **Day** target illuminance level adjustments.

For Wattstopper Technical Support, dial **1-800-879-8585**. Press **Option 1** for Customer Support, followed by **Option 3**.