0-10V Layer Pack Installation Instructions





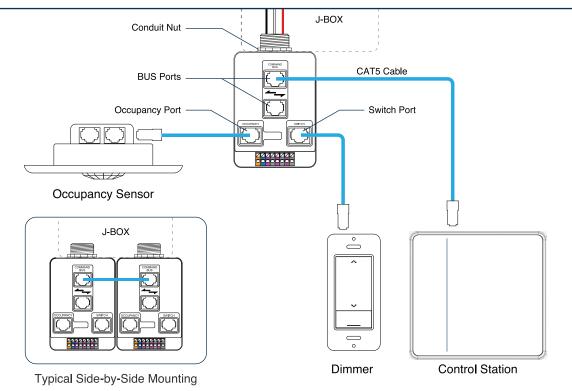
Specifications & System Diagram

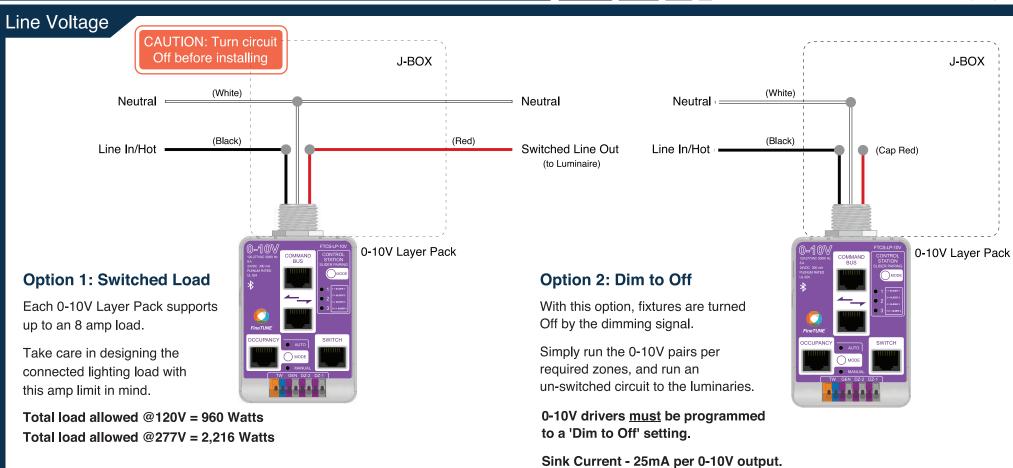
- 120/277VAC ~ 50/60 Hz
- Emergency Device (UL924)

5 Year Warranty

8A Load Relay

- Sink Current 25mA per 0-10V output
- 24VDC Power Supply @ 300mA
- Plenum Rated (UL2043)





- The Layer Pack can be installed in a junction box using the provided conduit nut.
- Please refer to local and national electric codes for proper installation.

- · Once the Layer Pack is installed, turn the circuit back on.
- The connected fixtures will turn on to full brightness at 3500K.

0-10V Outputs

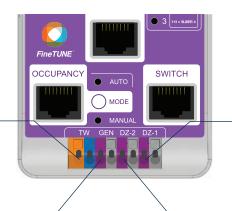
Only one controller is needed to control a general lighting zone and two daylighting zones. Run each output based on the space's zone requirements.

TW - Tunable White Control

If luminaires have tunable white functionality, connect this 0-10V output to all fixture zones connected to this Layer Pack. An Orange (+) and Blue (-) will be provided out of each fixture.

GEN - General Lighting Zone

Connect this 0-10V output to the General Lighting fixtures. This zone is not affected by daylight.



DZ1 - Daylight Zone 1

Notes

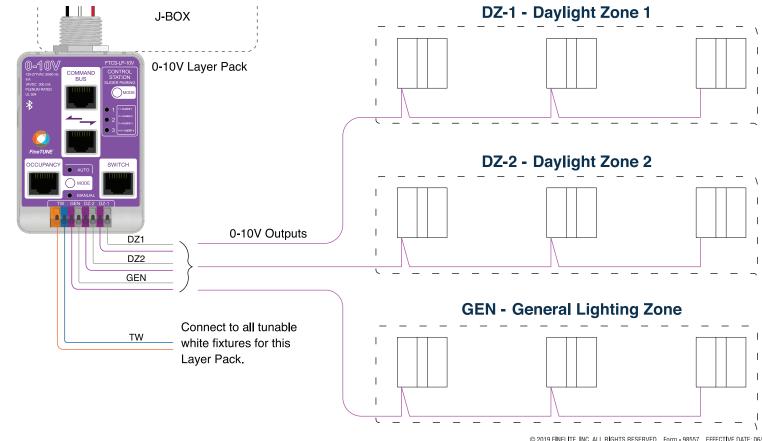
Fixtures connected to this 0-10V output will respond to the daylight sensor connected to DZ1 of the 'Daylight Sensor Pack'.

DZ2 - Daylight Zone 2

Fixtures connected to this 0-10V output will respond to the daylight sensor connected to DZ2 of the 'Daylight Sensor Pack.'

Notes

- 0-10V outputs can be run as Class 1 or Class 2.
- Run 0-10V outputs to corresponding zones specified by project requirements.
- If fixtures were specified as tunable white (using 0-10V protocol), connect all fixtures together using Orange and Blue 0-10V output.



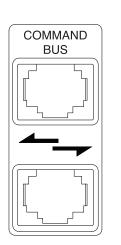
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Command BUS



There are four hardware devices that connect to the Command BUS (shown to the right).

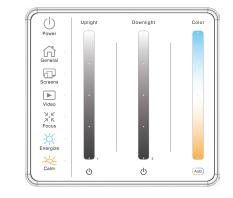
All devices have two BUS ports to allow for easy topology free connections.

Many combinations of device are possible. Connecting these devices together on the Command BUS defines the installed space. The BUS would not go to any other space. Each space becomes its own "stand alone" system.









Control Station PN: Specific to Order



Daylight Sensor Pack PN: FTCS-DSP

Hardware Guidelines

BUS Hardware Devices

Any combination of the four hardware devices can be on the same shared Command BUS. This defines the 'installed space' and the overall system. Important: All devices in the 'installed space' shall be bussed together.

The BUS shall never cross into a separate space.

Occupancy Sensors

Up to (4) Dual Tech occupancy sensors per Layer Pack.

Up to (8) PIR occupancy sensors per Layer Pack.

Control Stations

Up to (2) 'Control Stations' per system (shared BUS).

Daylight Sensors

Only (1) 'Daylight Sensor Pack' shall be used on a system (shared BUS). This accounts for (2) 0-10V daylight sensors to apply to all Layer Packs daylight zones (DZ1 & DZ2).

Switch Connections

Switches connect into the "SWITCH" port of the Layer Pack(s). There are two types of switches that can connect to this system.

Local Switches

These types of switches connect only to the Layer Pack they are going to control. These switches can daisy chain to other locations throughout the space (see image).

Master Switches

Unlike Local Switches, Master Switches control all the Layer Packs on the same BUS. These switches can connect to a Layer Pack or to any 'Local Switch' to control all the Layer Packs on the same BUS (see switch instructions).

J-BOX **Example Switch Wiring** CAT5 Cable Ceiling Use the local switch to daisy chain to next location See Instructions in Finetune switch packaging for more details.

FMX Layer Pack

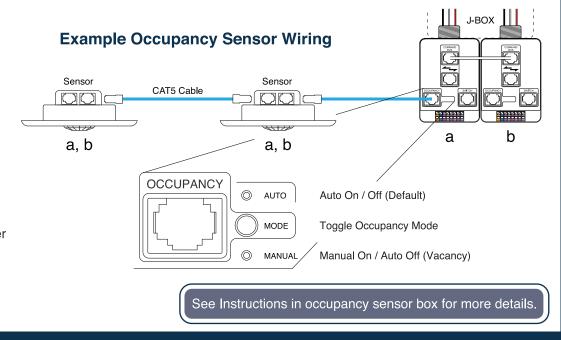
PN: FTCS-LP-FMX

Occupancy Sensors

Occupancy sensors provided with the Finetune System will have CAT5 ports to daisy chain throughout the space (see image).

Plug an occupancy sensor or sensors into any Layer Pack's "OCCUPANCY" port and it will communicate the state of the occupancy sensor to all Layer Packs sharing the same BUS.

Once any occupancy sensor is plugged into a Layer Pack, the occupancy "MODE" can be manually selected. Auto On / Off is the default mode, or Manual On / Auto Off (Vacancy).



Mobile Applications





Download the FineTune® TCS Mobile App





Bluetooth

 Connect to the space you want to modify (coming soon) A "Blink" button will flash the lights to confirm you are connecting to the right space

· Add the name of the space and choose from options below.

Operational Hours / Sweeps

- 1. Apply operational hours to everyday or weekdays and weekends
- 2. Select an "enable On" time
- 3. Select an "Off" time
- 4. Press "Save" to complete

Adjust System Settings

Set High-End trim to all luminaires in a space Adjust Demand Response reduction level Select Occupancy functionality:

- Auto On / Off (Default)
- Manual On / Auto Off (Vacancy)
- Set a Partial On (Auto On / Off only)
- Set Partial Off

Add Tunable Schedules

Select from Finelite's factory designed schedules OR customize your own:

- 1. Select a time
- 2. Choose a transition time
- 3. Select a CCT [2700K 6500K]
- 4. Repeat and "Save" when complete

Note: Custom settings and scheduling can be created On or Off site. These settings are saved and can easily be uploaded to other spaces.

Advanced Application References

Also See Packaging for:

Control Station Instructions Switch Instructions

Daylight Sensor Pack Instructions FMX Layer Pack Instructions

Please visit our website for full list of instructions: finelite.com/products/finetune-tcs