

Fixture Mounted 0-10V Controller with Occupancy/Vacancy/Daylight Sensor

Model: C-TFS-42-DF00



Certifications



Installation

Installation is straightforward, with the controller it is directly integrated into the fixture with 1/2" knockout. Upon powering up, the device is ready to join the BubblyNet Mesh network via the BubblyNet App, offering simple and efficient setup.

Specifications

- DC Input Voltage - 12-24VDC
- Max Power Consumption: < 30mA
- DC Output Voltage - 0-10VDC
- Operating Temperature: 32°F to 104°F (0°C to 40°C, indoor use only)
- Sensor Type: PIR Occupancy Sensor
- Max Detection Range: 16ft (5m)
- Lux Detection Range: 0-1000 Lux
- Detection angle: 130°
- Dimensions: 1.3" x 1.4" (32mm x 36mm)

Description

The Fixture Mounted 0-10V Controller combines occupancy/vacancy sensing, daylight harvesting, and BubblyNet wireless technology to provide an advanced lighting control solution. This device enables significant energy savings and occupant comfort in various indoor applications such as residences, offices, and corridors.

Operation

The device operates within a Bluetooth Mesh network, allowing for seamless integration and control within the BubblyNet ecosystem. It supports continuous dimming, individual/group addressing, and sensor-based autonomous control for efficient lighting management.

Features

- Integrates PIR motion detection, daylight harvesting, and 0-10V dimming into a single compact device.
- Provides energy savings and enhances occupant comfort by adapting to ambient light and presence.
- Designed for easy fixture mount installation in indoor environments.

Applications

Ideal for controlling lighting in indoor settings where energy savings and occupancy-based lighting control are desired. Suitable for residences, offices, meeting rooms, and corridors.

Connectivity

Devices are repeaters for other devices and should be installed within a certain maximum distance from each other.

Typical maximum distance:

Outdoor (line of sight): 200ft

Indoor (through building material):

Glass:	100ft
Drywall:	70ft
Cinderblock:	60ft
Brick:	50ft
Concrete + rebar	0ft

For design purposes a 60ft. maximum distance is appropriate for most installations.

