Project	Catalog #	Туре	
Prepared by	Notes	Date	



Greengate

Photodiode Sensor

A Greengate Lighting Control System accessory which allows control of lighting levels based on how much natural light is present

Interactive Menu

- Order Information page 2
- Additional Resources page 3
- Wiring Diagrams page 3
- Product Warranty

Product Features





Top Product Features

- · Selectable dimming rate for three or eight seconds providing a fast response or stable signal
- Adjustable light levels from 7-140 FC on the Photodiode Sensor allows for flexibility in work area illumination
- · Continuous dimming permits implementation of a lumen maintenance strategy
- · Flat Fresnel lens provides a narrow cone of response
- · Combine with occupancy sensors for added savings





Greengate Photodiode

Order Information

This is an accessory for the Greengate ControlKeeper Lighting Control Systems. It is not an integral part of the system. There is no factory assembly needed.

Catalog Number

Preferences (1)	Catalog Number	Orientation	Field of View	Technology	Mounting	Input	Output
[Blank] =Standard BAA = Buy American Act	.C-PD-DIM	Downward	60°	Photodiode	Ceiling 8-15 ft	12 VDC	0-9 VDC

Notes

(1) Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to <u>DOMESTIC PREFERENCES</u> website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Product Specifications

Key Features

The Photodiode Sensor measures the actual amount of illumination within a work area or monitored zone. It compares the light level to a preset footcandle (FC) calibration and sends a voltage signal to a dimming ballast to either increase or decrease the lighting in fluorescent lamps. This ensures that there is a constant level of illumination within the controlled area. A potentiometer adjustment on the Photodiode Sensor is calibrated to preset the light level.

Mechanical

Size: 1.23"L x 2"D. Lens = 1.29"D

Environment:

- Operating temperature: -13°F to 140°F (-25°C to 60°C)
- Relative humidity operating: less than 95%, non-condensing
- For indoor use only

Mounting: The sensor mounts through a 3/8" hole in the ceiling tile and is secured with double-sided adhesive foam (provided)

Housing: GE Cycolac T ABS stabilized housing meets UL 94HB flame-retardant requirements

Sensor Type: Blue-enhanced photodiode

Sensor Range: 60 degree field of view at ranges 0 to 500 foot-candles

Electrical

Input Voltage: 10 VDC from electronic dimming ballast only

Output Voltage: 1 VDC when ambient light is brightest and 10 VDC in darkest. Up to

50 ballasts may be connected to one Photodiode sensor

Wiring: Photodiode Sensors are provided with insulated pigtails. Sensors and ballasts are interconnected by 18 AWG Class 2 wiring per NEC 725. Use ULrecognized Teflon-insulated wire approved for plenum areas per NEC 725-2(b) where required

Warranty

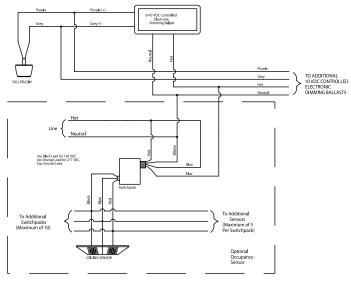
Consult website for warranty information



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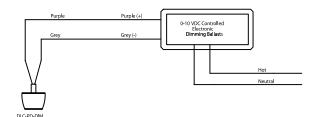
Wiring Diagrams

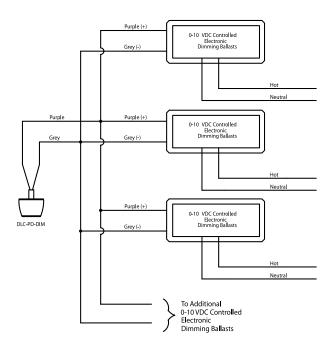
Continuous Dimming with Occupancy and Full lights-OFF with Occupancy



Continuous Dimming with Occupancy and Full lights-OFF Without Occupancy

Photodiode Controlling 0-10 VDC Dimming Ballast









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