

# EDS

**PHOTODIODE SENSOR/CONTROLLER**  
For 0-10V Dimming Ballasts  
2 Wire, Loop Powered, Analog 0-10V



[ CORRECT ORIENTATION SHOWN ]

PROJECT	
LOCATION	

## FEATURES

- Compatible with T8 and T5 Electronic Dimming Ballast
- Measuring range 0-140fc
- NIST traceable factory calibration
- Output 0-10V
- Adjustable response time
- Indoor sensor is adhesive ceiling mountable
- UL 916 Listed
- Compliant with California Title 24
- 2 year warranty

## DESCRIPTION

The EDS Sensor is a two wire, loop powered, analog photosensor which provides light level control of fluorescent 0-10VDC electronic dimming ballasts. The EDS sensor is available as an indoor model used in offices and classrooms. It mounts on the ceiling using an adhesive pad and a 1/2" hole in the ceiling.

IRIS Sensors are powered by a T5 or T8 ballast's low voltage source. Both types of ballasts have one output range of 0-10VDC. The sensor can control up to 50 electronic dimming ballasts. The sensor's Fresnel lens sees light reflected within a 60° angle from furnishings and the floor. It is calibrated using a 25 turn potentiometer with a

range of 10 to 140fc. The response time is changeable by cutting a wire loop. All EDS sensors are UL 916 listed, low voltage Class 2 wiring devices. Custom wire lengths, lens and housing modifications are also available.

The EDS sensor can be used with the optional PS-010 switch and power switch. Electronic dimming ballasts are switched on and off using the power switch. The PS-010 is used in conjunction with the EDS sensor so that the lower input will drive the dimming ballasts.

**NOTE: When using the EDS sensor and the PS-010 together, please use the Slide Control switch ratings.**

## TECHNICAL DATA - EDS

**Input Voltage:** 10VDC (supplied by ballast)  
**Current:** Sink up to 25mA  
**Low Output:** 0VDC  
**High Output:** 10VDC  
**Adjustment:**

Range Response	10-140fc
Time Response	20sec, cut white/green loop 10sec

**Operating Temperature** -13°F to 140°F  
**Accuracy:** +/- 1% at 70°F (21°C)  
**Tolerance:**

Repeatability	12%
Linearity	+/- 0.5%
Temperature	1%+/- 10%

**Wiring:**

Violet:	Input Voltage
Grey:	Sinking Voltage
White/Green:	This wire loop controls the sensor response delay, leave intact for 20sec. delay, cut for a 10sec. delay

**Compliance:** NEC Class 2 ; California Title 24

