

PD
PHOTODIODE SENSOR
WITH REMOTE ADJUSTMENTS
4 Wire, External Power w/ Fixed Output Range

PROJECT	
LOCATION	

Part 1 - General

1.01 PHOTODIODE SENSOR

The photodiode sensor shall be a Class 2, low voltage, ambient light sensor designed to interface directly with the analog input of the controller. The sensor shall supply an analog signal to the controller system proportional to the light measured. The sensor shall be capable of a fully adjustable response in the range between 0 and 10,000 footcandles with a +/-1% accuracy at 70°F (21°C).

The sensitivity adjustment shall be remote at the controller. The sensor housing shall be constructed from GE Cyclocac® ABS, shall be flame retardant and meet UL 94 HB standards.

1.02 INDOOR

Indoor sensors shall have a Fresnel lens, with a 60 degree cone of response. Indoor sensors shall only require a penetration hole in the ceiling of 3/8" dia. And the sensor shall mount to the ceiling using adhesive tape. The indoor sensor range shall be between 0 and 750fc. The indoor sensor shall be a PLC Sensors PD1 sensor.

1.03 OUTDOOR

Outdoor models shall have a hood over the aperture to shield the sensor from direct sunlight. The outdoor sensor circuitry shall be completely encased in an optically clear epoxy resin. Outdoor sensors shall mount to a standard threaded 1/2" Conduit or fit a 1/2" knockout. The outdoor sensor shall have two ranges: between 0 and 750fc or 5 and 2,500fc. The outdoor sensor shall be a PLC Sensors PD5 or PD5D sensor.

1.04 ATRIUM or SKYLIGHT

The Atrium or Skylight sensors shall have a translucent dome with a 180 degree field of view. Atrium or Sky light sensors shall mount to standard threaded 1/2" conduit or fit a 1/2" knockout. Atrium sensor range shall be from 2 to 4,000fc. Skylight sensor range shall be between 10 and 10,000fc. The Atrium or Skylight sensors shall be a PLC Sensors PD9 or PD9D sensor.