



FEATURES

- Compatible with Energy Management Systems
- Highly reliable two-wire device with 5' attached plenum rated cable
- Connects to standard thermistor / dry contact input
- Measures indoor ambient light level
- Calibrated to measure 0-500 Foot Candles or 0-5382 Lux
- Ceiling mounted sensor with single 1" mounting hole and hardware

SPECIFICATIONS

Model	EXL01020
Sensor	Photo Resistor
Analog Range	0-5 VDC or 0-10 VDC
Illumination Range	0 to 500 FC
Illumination Range	0 to 5382 LUX
Power	0-24 VDC
Current Draw	< 1 mA DC
Accuracy	+/- 10%
Repeatability	+/- .5%
Dimension	5" Round

PART NUMBER:

EXL01020 [Options]
FLLC

Indoor Ambient Light Sensor for Daylight Harvesting

Description:

This analog ambient light sensor is used to measure the light level for maintaining closed loop control of illumination using variable light sources.

The photo resistive sensor element is sensitive to light over the entire visible light spectrum of 400 nanometers to 700 nanometers, providing accurate light level readings for all visible light sources.

Sensors with factory calibration option are calibrated from 0-500 foot candles (0-5382 Lux) light intensity at the sensor.

As with all light intensity sensors, the light level relevant at the task area requires field calibration.

Use of the factory calibration to adjust light levels will require a subjective or measured adjustment of the reflected foot candle / LUX level as measured at the ceiling mounted sensor in order to provide satisfactory task area light levels.

Field calibration to accurately measure light level at the task area is recommended. While light intensity at the sensor directly varies with the light level at the task area, the amount of reflected light depends on the material in view of the sensor.

For example, the amount of light reflected by a light-colored carpet versus a dark-colored carpet will have a large impact on the light intensity at the EXL-01020 Ambient Light Sensor.

The field calibration procedure involves measuring the light level with a light meter at the desired task area, recording the measured level with the light level reading at the sensor and adjusting the sensor calibration.

Options:

- FLLC Factory Light Level Calibration