



Wireless Light Sensor

Technical Overview

General Description

The OEM RF Wireless Light Sensor detects the presence or non-presence of light.

Features

- Detects presence of light.

Principle of Operation

The OEM Wireless Light Sensor uses a photo resistor to detect the presence of light around the device. The sensor returns a value of light or no-light to the sensor monitoring software. The data is stored in the software and can be reviewed and exported as a data sheet or graph. Notifications can be set up to alert the user when light is present or not with the ability to only notify within time of day parameters.

OEM Sensor Core Specifications

- Power: 3.0 V coin cell battery
- Communication: RF 900, 868 and 433 MHz
- Antenna: 4" wire antenna
- Operating Temperature: -40° to 85°C (-40° to 185°F)
- Device Range: 250 - 300 ft. non-line-of-sight*
- Only 1 inch by 1 inch

* Actual range may vary depending on environment.

Applications

- Commercial property management.
- Home light monitoring.
- Small business light monitoring.

Specifications

Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 μ A (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Optimal Battery Temperature Range (Coin Cell)	+10°C to +60°C (+50°F to +140°F)
Angle of Half Sensitivity	$\phi = \pm 50^\circ$
Max Light Level	0 - 1,000 Lux

- * Hardware can not withstand negative voltage. Please take care when connecting a power device.
** At temperatures above 100°C, it is possible to lose programmed memory.

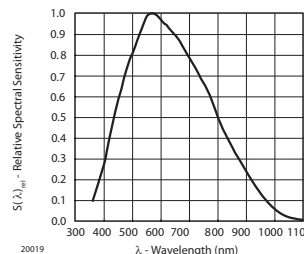


Fig. 1 - Relative Spectral Sensitivity vs. Wavelength

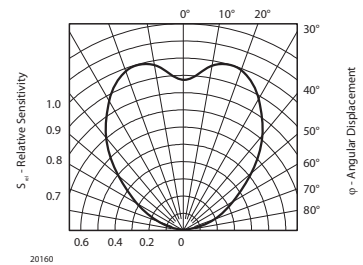


Fig. 2 - Relative Radiant Sensitivity vs. Angular Displacement

For more product information, to get a quote, or to place an order, please contact our sales department at 801-561-5555. Visit us on the web at www.oemsensors.com.