OEM Sensors.com™

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 busines light monitoring.

Specifications

Specifications	
Supply Voltage	2.0 - 3.6 VDC *
Current Consumption	0.7 µA (sleep mode) 2 mA (radio idle/off mode) 2 mA (measurement mode) 25 mA (radio RX mode) 35 mA (radio TX mode)
Electronics Operating Temperature Range	-40°C to +85°C (-40°F to +185°F) **
Available Operating Frequencies	900 MHz (25 Channels), 868 MHz (5 Channels) and 433 MHz (15 Channels)
Angle of Half Sensitivity	$\phi = \pm 50°$
Max Light Level	0 - 1,000 Lux
Certifications	FC CE ◆ Industry Canada 900 MHz product; FCC ID: ZTL- RFSC1 and IC: 9794A-RFSC1. 868 and 433 MHz product tested and found to comply with: CISPR 22:2008-09 / EN 55022:2010 - Class B and ETSI EN 300 220-2 V2.4.1 (2012-05).

* Hardware can not withstand negative voltage. Please take care when connecting a power device.

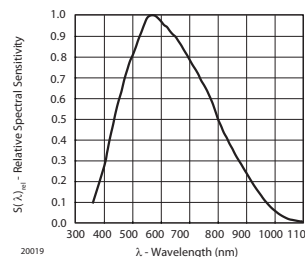** At temperatures above 100°C, it is possible to lose programmed memory.

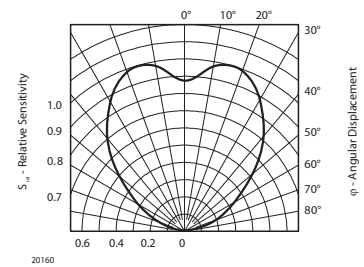Fig. 1 - Relative Spectral Sensitivity vs. Wavelength

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.

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