



Wireless Lighting Controls

wiSTAR™ Self-Powered Wireless Light Sensor

With Optional Occupancy Detection

KEY FEATURES

- Occupied Signal Cycle Options
- Unoccupied Signal Cycle Options
- Lux Sensor Configuration
- Remotely Adjust amount of—
 - Natural Light
 - Incandescent Light
 - Fluorescent Light
- Remotely Change EnOcean Profile



WIS-DSM

OVERVIEW

Hubbell Building Automation's wiSTAR™ Wireless Light Sensor has built-in solar cells that draw on available ambient light to power itself and can operate for up to 7 days in total darkness. Batteries are not required for continuous operation. The Light Sensor is designed to operate in closed loop applications for light levels from 0 to 94.8 footcandles (0 to 1020 LUX). This is a revolutionary product for daylight harvesting applications to meet energy saving initiatives. Optimally place the sensor in the desired lighted space, pair it with a receiver for load control and your installation is complete. The self-powered wireless light sensor design also overcomes the placement and coverage challenges of traditional light sensors. They may be mounted wherever needed without moving or installing new wiring or conduit.

BENEFITS

- Daylight Harvesting: light sensor has both switched and dimmed capabilities, both are dependent on the application and Receivers used
- No Power Consumption: when enough natural light is available, solar power provides the energy to keep the device ON while sensor technology turns the lights OFF, eliminating additional expenses to the end user's energy bill
- No External Power Required: with no wiring limitations, this enables the installer to place the sensor in the optimal location of any application to capture optimal daylight readings
- Self-Powered & Self-Charging: angled solar cells are optimal for light collection enabling the sensor to capture maximum ambient light over flat solar cells
- Quick Charge Time to Operation: self-powered technology enables the sensor to be operational after a minimum charge time of 1 minute
- True Wireless: sensors are self-powered and communicate with all EnOcean-based receivers via radio frequency
- No Additional Materials: self-powered wireless technology eliminates the need to pull additional wire and conduit making installation quick and easy, while diminishing labor costs
- No Batteries or External Power Required: exclusive "battery-less" technology significantly reduces callbacks and maintenance for additional savings
- Up to 7 days of Stored Power: solar panel provides power for the device to maintain a sufficient charge to operate for long periods of time without light
- Unlimited Energy Savings: wireless technology supports daylight harvesting and manual override options with no additional wiring

LIGHT SENSOR SPECIFICATIONS

Frequency	902 MHz
Range	50-150 ft
Photocell	0 to 94.8FC (0 to 1020 LUX)
Transmission Interval	Upon > 20FC (200LUX) changes
Minimum Light Required	4FC (40 LUX)
Solar Cell Operating Range	4 to 100FC (40 to 1000 LUX)
Minimum Charge Time to Begin Operation	1 minute @ 20 FC (200 LUX)
Full Charge Time	~8 hours @ 100FC (1000 LUX)
Maintain Charge Time	3 hours per 24 hours @ 20 FC (200 LUX)
Operation Life at Full Charge	7 Days
Optional Battery Life	10 Years
Operating Temperature Range	32°F to 104°F (0°C to 40°C)
Storage Temperature Range	-4°F to 158°F (-20°C to 70°C)
Relative Humidity	0% to 95%, non-condensing
Usage	Indoor use only
Mounting Height	8-12 feet

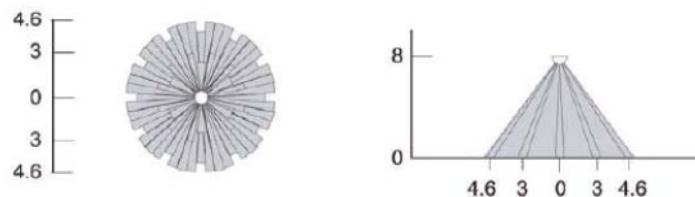
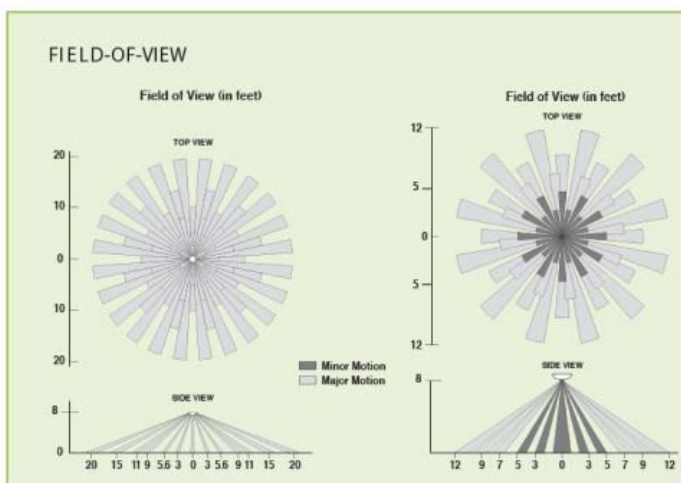
MOTION SPECIFICATIONS

Range	Up to 100 feet
Frequency	902 MHz
Transmission Interval	60 seconds
Minimum Light Required	4FC (40 LUX)
Solar Cell Operating Range	4 to 100 FC (40 to 1000 LUX)
Minimum Charge Time to Begin Operation	1 minute @ 20 FC (200 LUX)
Maximum Charge Time	8 hours @20 FC (200 LUX)
Maintain Charge Time	3 hours per 24 hours @20 FC (200 LUX)
Optional Battery Life	10 years
Operating Temperature Range	32°F to 104°F (0°C to 40°C)
Storage Temperature Range	-4°F to 158°F (-20°C to 70°C)
Relative Humidity	0% to 95%, non-condensing
Usage	Indoor use only
Mounting Height	8-12 feet

ORDERING INFORMATION

Item Number	Description	Color
WIS-DSM-WH	wiSTAR Daylight Sensor Module, 902MHz	White

RANGE DIAGRAMS



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