**Daintree™ Wireless Photosensor**

(WPS1)

**BEFORE YOU BEGIN**

Read these instructions completely and carefully. Save these instructions for future use.

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**WARNING**

Risk of electrical shock. Disconnect power before servicing or installing product. Install in accordance with National Electric Code and local codes.

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**CAUTION**

Risk of injury. Wear safety glasses and gloves during installation and servicing.

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The WPS1 Wireless Photosensor is a battery powered light sensor that transmits and receives wireless messages in the Daintree Networked Wireless Controls platform. It is intended to be mounted to the ceiling, to measure the light level in the space. No wiring, adjustment or calibration is needed.

As part of the Daintree Networked system and using open, standards based ZigBee wireless communications, the WPS1 reports real-time light measurements. Designed to work with the Daintree Networked daylight harvesting solution, the WPS1 enables automatic and continuous adjustment of electric light levels to auto-defined or user-defined setpoints.

- Suitable for many applications: office, retail, education, etc.
- Ceiling surface mount, completely wireless installation.

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1. **Installation Process**

1. Determine the mounting location for the sensor based on day light availability and task area. See Placement for details.
2. Remove the sensor from the base by twisting it. Locate the sensor’s IEEE address on the label inside the base. Record the sensor’s IEEE address in its local on the facility floor plan.
3. Attach the mounting base to the ceiling in the specified location. Be sure the label is visible after mounting the base.
4. Install the batteries in the orientation (+ -) shown on the bottom of the battery compartments.
5. Secure the sensor to the ceiling by twisting it onto the base.
Installation Process (continued)

6. Initiate the Installation Test Mode: momentarily press the Utility button. The green LED flashes once then the red LED starts flashing. (The test mode times out after 5 minutes.)
   • Decrease the light at the photosensor by covering the lens with your hand: note that the LED flashes slower.
   • Increase the light at the photosensor by moving your hand away from the lens: note that the LED flashes faster.
7. If you observe the behaviors described in step 6, the sensor has passed the installation test. Exit Installation Test Mode by momentarily pressing the Utility button again.
   If you do not observe the proper behavior, see Troubleshooting.
8. Complete the installation by resetting the device to factory defaults: press and hold the Utility button for 5 seconds. Release the button when the Network LED begins to flash rapidly.
   The sensor attempts to join a ZigBee network for up to 30 seconds. If it is able to join, the Network LED turns on solid for 10 seconds. If it is unable to join, it automatically retries every 15 minutes until it succeeds in joining a network.

   Note, the sensor will not be able to join a network until a Wireless Area Controller (WAC) is commissioned.

   See LED Operation table below.

Joining the ZigBee Lighting Control Network

After successfully completing the Installation Test the WPS1 is ready to communicate with the Daintree Wireless Area Controller (WAC) and the Daintree Controls Software (DCS) web-based lighting management user interface.

* A network join can be retrigged manually at any time using one of the following methods:
  • Reset to factory defaults: This causes the device to leave any network to which it is currently joined. Following the reset, the device attempts to join a network. Press and hold the Utility button for 5 seconds. Release the button when the Network LED begins to flash rapidly.
  • Activate device: Press and hold the Utility button for 2 seconds. If the device is already joined to a network, the Network LED flashes twice. If the device is not joined to a network, the Network LED flashes rapidly and the device will attempt to join a network.

For more information about configuring the lighting control network, see the instructions and on-line help provided with the Daintree Controls Software (DCS) application.

Troubleshooting

If the Installation Test procedure fails:
  • Make sure that the photosensor lens is not obstructed and there is no debris on the lens.
  • Check to be sure the batteries are installed correctly, observe polarity.
  • Repeat the Installation Test.

No LEDs ever flash. Is the unit working?
When the device is operating normally and it has joined a network, the LEDs are off. If you want to confirm that the batteries are not dead, you can initiate the Installation Test Mode (Installation Procedure step 6) or Activate the device as described in Joining the ZigBee Lighting Control Network.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and radiates radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna;
- Increase the separation between the equipment and receiver;
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected;
- Consult the dealer or an experienced radio/TV technician for help.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser’s purposes, the matter should be referred to GE Current, a Daintree company.