



wiHUBB® Daylight Sensor

Installation Instructions

Hubbell Building Automation

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DESCRIPTION

Hubbell Building Automation's wiHUBB Daylight Sensor provides the necessary daylight-level information to the wiHUBB Smart Pack. Using a photodiode element, the daylight sensor continuously measures daylight levels and sends the information to the Smart Pack which then performs daylight switching or dimming functionality based on the amount of natural light in the area.

SPECIFICATIONS

- Power Requirements: Powered by wiHUBB Smart Pack SmartPORT using plenum rated SmartPORT plug and play cables for wiHUBB Daylight Sensor (sold separately)
- Three jumper-selectable foot candle ranges: 3-300FC; 30-3,000FC; 60-6,000FC
- For indoor use only
- Patents Pending
- Five year limited warranty

PRECAUTIONS

- **CAUTION: FOR USE WITH CLASS 2, LOW VOLTAGE SYSTEMS ONLY. DO NOT USE IN HIGH VOLTAGE APPLICATIONS.**
- Read and understand all instructions before beginning installation.
- **NOTICE:** For installation by a licensed electrician in accordance with National and/or local Electrical Codes and the following instructions.
- Disconnect switch or a circuit breaker must be provided and marked as the disconnecting device.

- Disconnect switch / circuit breaker must be within reach of operator.
- **CAUTION: RISK OF ELECTRICAL SHOCK.** Turn power off at service panel before beginning installation. Never wire energized electrical components.
- **CAUTION: USE COPPER CONDUCTOR ONLY.**
- Confirm device ratings are suitable for application prior to installation. Use of device in applications beyond its specified ratings or in applications other than its intended use may cause an unsafe condition and will void manufacturer's warranty.
- Use only approved materials and components (i.e. wire nuts, electrical box, etc.) as appropriate for installation.
- **NOTICE:** Do not install if product appears to be damaged.

DAYLIGHT SENSOR PLACEMENT

The Daylight Sensor must be placed to see only daylight with no contribution from artificial light sources. The sensor typically mounts on the ceiling between the window and the row of fixtures closest to the window (See Figure 1). For skylight applications, the sensor mounts in the lightwell with the sensor aimed towards the daylight.

INSTALLATION

1. The sensor's foot candle range is set via a jumper switch. Default setting: 3-300FC (Typical for most indoor applications). If the sensor's range needs to be changed, pry cover off using a screwdriver and set jumper switch accordingly. Refer to CHANGING DAYLIGHT SENSOR SETTINGS below if change is necessary.
2. Apply mounting tape to back of sensor.
3. Attach sensor to ceiling, wall or skylight. Note: Peak sensitivity is achieved when sensor is placed at a 45 degree angle to window (See Figure 1). When used with skylight, point sensor (lensed area) up towards daylight rather than down towards room.
4. Turn power controlling the wiHUBB Smart Pack off at the service panel.

5. Plug the Green SmartPORT cable into any available SmartPORT on the wiHUBB Smart Pack (See Figure 2). Verify solid snap-in connection. **NOTE:** Only one Daylight Sensor can be used per Smart Pack.
6. Route the Green SmartPORT cable from the Smart Pack to the Daylight Sensor. **NOTE:** Low voltage wiring **must be** isolated from line voltage wiring. Consult National and Local Electrical Codes for conduit requirements.
7. Plug the Green SmartPORT cable into the Daylight Sensor's Quick To Install (QTI)

connector. Verify solid snap-in connection. Note: To disconnect Daylight Sensor from cable, press down on the upper tab on the connection (located on the Green cable side of the QTI connector) and gently pull the two sides of the QTI connector apart.

8. Reapply power at service panel.
9. Perform system setup and/or programming activities as applicable in accordance with the instructions of the wiHUBB Access Point or system programming device (sold separately).

MOUNTING AND WIRING DIAGRAM

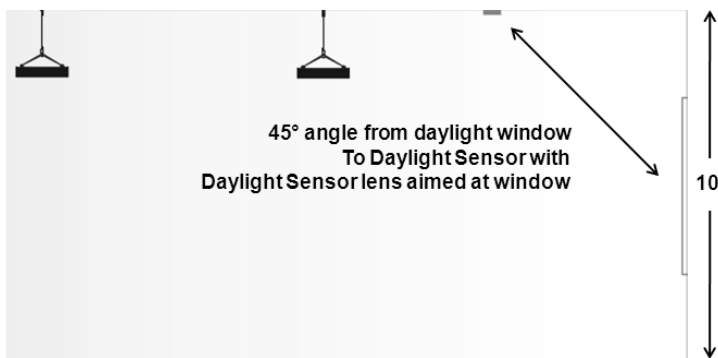


Figure 1: Daylight Sensor Placement

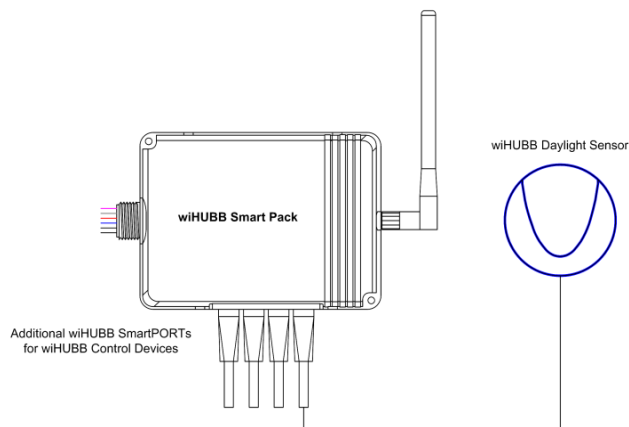


Figure 2: Daylight Sensor connected to wiHUBB Smart Pack SmartPORT

CHANGING DAYLIGHT SENSOR SETTINGS

Perform these changes only if necessary to ensure proper daylight sensor interaction with the wiHUBB Smart Pack. **IN MOST CASES THE STANDARD FACTORY SETTING OF 3-300FC WILL BE OPTIMAL.**

1. Gently remove cover from back of Daylight Sensor, taking care not to lose it.
2. Change sensor setting; first remove the black pin cap. Take care not to lose the black pin cap.
3. To change setting, re-insert black pin cap as shown below
 - a. To set at 3-300FC, place black pin cap over top two pins, placed horizontally (See Figure 3).
 - b. To set at 30-3000FC, place black pin cap over center two pins, placed horizontally (See Figure 4).
 - c. To set at 60-6000FC, place black pin cap over bottom two pins, placed horizontally (See Figure 5).



Figure 3



Figure 4



Figure 5