

Daylight Controls

Daylight Sensors Daylight Controllers

Product Description

- The term "**Photocell**" typically refers to a simple line voltage device that senses if there is daylight or no daylight and issues an ON or OFF command to the electrical circuit.
- "**Daylight Sensors**" can measure the full range of daylight levels and issue the value to the "**Daylight Controller**" in either *footcandles* or *lux*.
- **Daylight Controllers**, upon receiving the data from the **Daylight Sensor**, either switch the relays ON/OFF depending on the adjustable *Set Point* value or, when dimming is used, regulate the voltage to the circuit(s) to dim the lights to the appropriate value from fully dimmed to fully bright.
- Some Douglas products combine the **Daylight Sensor** and **Daylight Controller** into one package while others utilize Daylight Sensors that are remote from the Daylight Controller.

Product Market


- **WPS-5621** Indoor Daylight Sensors consist of a sensor and controller in one unit and wire directly to **Douglas 2-Wire Relays**.
- **WPS-5527** Outdoor Daylight Sensors send data to, and wire to terminals on, the **WTC-4408 Time/Photo Controller** in a **Douglas 2-Wire Relay System**. **WPS-5527** Outdoor Daylight Sensors or **WPS-5533** Indoor Photo Sensors connect to the *Photo Sensor* terminals in a **Douglas Satellite Panel** master board to signal the panel's built-in daylight controllers.
- **WPS-5951** (indoor) or **WPS-5941** (outdoor) Digital Daylight Sensors connect to the data line in a **Douglas WNP-2150 Network** to signal the WNP-2150's built-in photo controllers.
- **WPS-5951** (indoor) or **WPS-5921/WPS-5941** (outdoor) Digital Daylight Sensors are *LonWorks* devices that can be used in BMS systems that are based on *LonWorks* technology.

Product Data Sheets

- Copies of the Douglas Daylight Sensor and Daylight Controller product cut sheets are available to download in PDF format from the "Product Listings" section on the Douglas website: www.douglaslightingcontrols.com.
- Limited hard copies are available from Douglas. Send your requests to Leanne.


Daylight Controllers

Technical Data

 <p>Time/Photo Controller Network Manager Satellite Panel</p>	PART No.	DESCRIPTION
	WTP-4408 WNP-2150 WSP-2718	<ul style="list-style-type: none"> Time/Photo Controller for Douglas 2-Wire Relay System. Network Manager for Douglas W-2000 <i>LonWorks</i> System. Satellite Panel for Douglas W-2000 <i>LonWorks</i> System. <p>NOTE: Daylight control is but one of the functions the above devices can perform. Other functions can include, but are not limited to, time scheduling, astronomical control, relay grouping and manual relay control and status.</p>


Daylight Sensors - ON/OFF Control

Technical Data

	PART No.	DESCRIPTION
	WPS-5621	<ul style="list-style-type: none"> Indoor Daylight Sensor to operate Douglas relays ON and OFF. Connects directly to relays, controller built into unit. WPS-5621 adjustments are in footcandles.
	WPS-5533	<ul style="list-style-type: none"> Indoor Daylight Sensor for Satellite Panels and WTP-4408 Time/Photo Controller. WPS-5533 values are broadcast in footcandles.
	WPS-5951	<ul style="list-style-type: none"> Indoor Daylight Sensor for W-2000 Systems and <i>LonWorks</i> Networks. Connects to data signal (<i>LonWorks</i> FTT-10). Sensor regularly broadcasts light levels values (in lux) and system uses these values to either switch or dim lights.


Daylight Sensors - for Exterior Applications

Technical Data

	PART No.	DESCRIPTION
	WPS-5527	<ul style="list-style-type: none"> Outdoor Daylight Sensor for Satellite Panels and WTP-4408 Time/Photo Controller. WPS-5527 values are broadcast in footcandles
	WPS-5941	<ul style="list-style-type: none"> Outdoor Daylight Sensor for W-2000 Systems and <i>LonWorks</i> Networks. Connects to data signal (<i>LonWorks</i> FTT-10). Sensor regularly broadcasts light levels values (in lux) and system uses these values to either switch or dim lights.
	WPS-5921	<ul style="list-style-type: none"> Outdoor Daylight Sensor for <i>LonWorks</i> Networks using Link Power data signal. Connects to data signal (<i>LonWorks</i> Link Power Data Line). Sensor regularly broadcasts light levels values (in lux) and system uses these values in accordance with the system software settings.

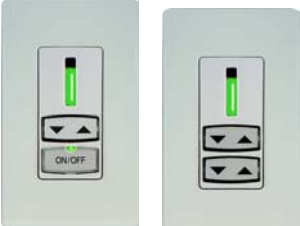
Daylight Sensors - Dimming Control

Technical Data

	PART No.	DESCRIPTION
	WPS-5700	<ul style="list-style-type: none"> Indoor Daylight Sensor for direct control of 0-10V dimming ballasts. Sensor is regulating type and attempts to maintain constant light level by varying ballast output to supplement natural light levels. High natural light = low ballast output. Low natural light = high ballast output.

0-10V Dimming Ballast Controllers

Technical Data

 <p>WPN-5821 WPN-5822</p>	PART No.	DESCRIPTION
	WPN-5821	<ul style="list-style-type: none"> Single channel Dimming Controller for 0-10V dimming ballasts. Also included is Douglas relay switch for ON/OFF control.
	WPN-5822	<ul style="list-style-type: none"> Two channel Dimming Controller for 0-10V dimming ballasts. Douglas relay switch for ON/OFF control not included.