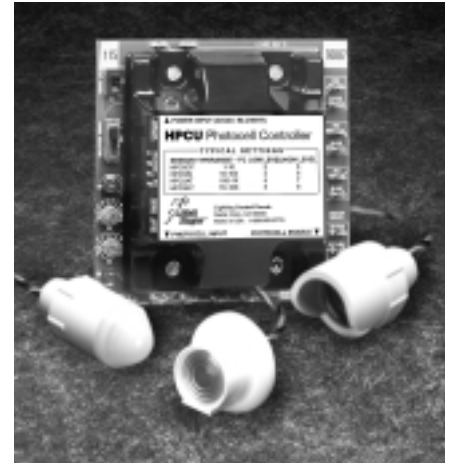




Photocontroller and Photocells

- ◆ Control module and photocells for daylighting control of interior and exterior lighting
- ◆ Four photocell types for specific application settings
- ◆ Adjustable setpoints for deadband
- ◆ Three-minute time delay
- ◆ Three isolated outputs
- ◆ Master switch input
- ◆ Photocell lockout
- ◆ One year warranty



Component Information

The Watt Stopper's basic photocontroller works with a range of photocells to add daylighting control capability to lighting control panels. The controller and photocells are compatible with Smartwired Control and Complete Control panels. In addition to the controller module itself (HPCU), there are four different photocells. Each photocell is designed for different applications, and the user may select the appropriate photocell.

Operation

The photocontroller utilizes a photocell sensor (located either outdoors or indoors, depending on the application) to read light levels and transmit the data to the controller module, usually located in the lighting control panel. When the light level data received from the photocell indicates that the setpoint has been reached for a sufficient time, the controller will switch lighting OFF. Conversely, when light level data from the photocell indicates that the daylight contribution is not adequate, the controller will switch lighting ON. With the appropriate photocell, the controller provides daylighting control for interior spaces, atriums, skylights, and exterior lighting.

Features

A Class 2 device, the photocontroller has three outputs that may be connected directly to relays or to a programmable input or channel. The module features a three-minute time delay and adjustable switching ranges that allow adjustment for high and low setpoints of the deadband.

Applications

Users may select among four different photocells to tailor the control to the application more precisely. The HPCSIN photocell provides monitoring of daylight contributions in interior spaces. The HPCSOT photocell is designed for exterior use and the control of exterior lighting. For atrium spaces, users would select the HPCSAT photocell, which is capable of sensing the brightness of ceiling spaces without being exposed to direct daylight. In applications that include skylights, the HPCSKY photocell would be the suitable choice, as it is designed for mounting in the skylight itself and is capable of monitoring daylight levels between 1,000-10,000 footcandles. By providing a selection of photocells that work with the Photocontroller, users are able to take advantage of energy savings through using the abundance of daylight.

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Photocontroller Technical Information

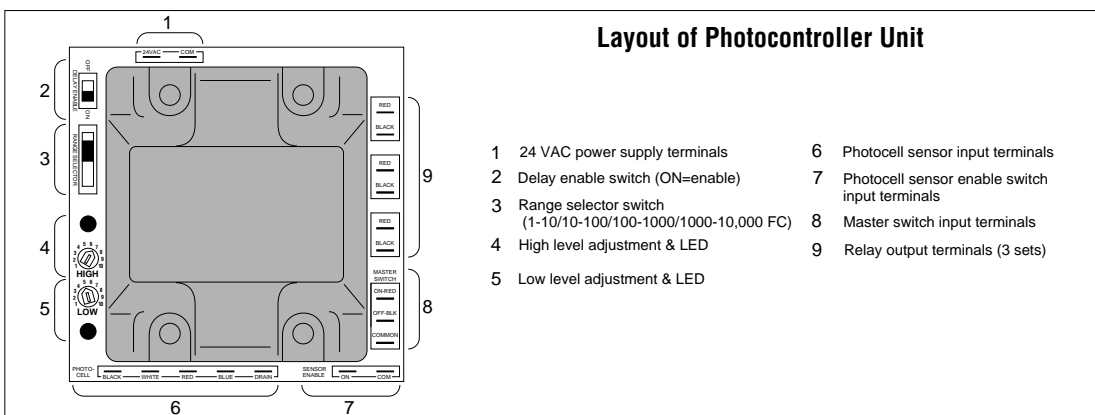
Specifications

- ◆ Compatible with The Watt Stopper Smartwired Control and Complete Control panels
- ◆ User-selectable footcandle range from 0 - 10,000 for controller module (HPCU)
- ◆ Three isolated outputs each capable of driving up to three relays or an intelligent input
- ◆ Controller module mounts in any Watt Stopper interior or accessory enclosure
- ◆ Choice of four photocell sensors: interior, exterior, atrium, or skylight sensor
- ◆ User-adjustable deadband of two footcandles
- ◆ Three-minute time delay
- ◆ Master switch input for temporarily overriding all outputs
- ◆ Lockout switch for disabling sensor during unoccupied periods
- ◆ One year warranty

Ordering Information

Catalog No.	Description	Footcandle Range
HPCU	Photocontroller	
HPCSIN	Indoor Photocell	10-10
HPCSOT	Outdoor Photocell	1-10 (parking lot and security lighting)
HPCSAT	Atrium Photocell	100-1000
HPCSKY	Skylight Photocell	1000-10,000

Unit Layout



Wiring & Installation

