



Hubbell's daylighting control photocell sensors (DHIP, DHOP, DHAP and DHSP) and the DHCM photocell controller provide indoor, outdoor, or skylight control of lighting circuits based on natural daylight. The sensors and controller are able to provide coverage for any application. The photocell sensors light level measurements to an analog signal that is sent to an energy management system (EMS) or the DHCM control module to control area lighting by switching banks of lights on and off.

The sensors are factory calibrated and sensitivity is adjustable through the control module. The indoor sensor has a fl at Fresnel lens that looks downward in a 60-degree cone of reference to measure actual light on the work surface. The outdoor sensor is enclosed in a weatherproof housing with a visor for shading and lens protection. The Atrium and Skylight sensors both use diffusing dome lenses to provide a 180-degree angle of photodiode response.



### Key Features

- Multiple sensor options available
- Interfaces with Energy Management Systems
- 2-year limited warranty

### Features and Benefits

#### Features

Multiple sensor options available

#### Benefits

Coverage is available for all lighting applications – indoor, outdoor, atrium, and skylight applications

Interfaces with DHCM control module or Energy Management Systems

Enables lighting control from Energy Management Systems

#### Applications

All daylight harvesting and outdoor applications including:

- Atriums
- Skylights
- Manufacturing
- Lobbies
- Commercial Interiors
- Parking lots
- Playgrounds
- Storage areas
- Perimeter lighting



### Photocell Sensors

Description	Catalog Number
Indoor Photocell Sensor Min. = 0 fc. / Factory Set Max. = 100 fc.	<b>DHIP</b>
Outdoor Photocell Sensor Min. = 0 fc. / Factory Set Max. = 250 fc.	<b>DHOP</b>
Atrium Photocell Sensor Min. = 2 fc. / Factory Set Max. = 1000 fc.	<b>DHAP</b>
Skylight Photocell Sensor Min. = 10 fc. / Factory Set Max. = 5000 fc.	<b>DHSP</b>



### Specifications

**Accuracy** +/--1% @ 70°F (21°C); Derated to +/-5% when above 120°F (49°C) or below 50°F (18°C)

**Operating Temperature** -13°F to +140°F (-11°C – 60°C)

Sensitivity Ranges	Housing Minimum Adjustable Maximum				
	Cat. No.	Application	Min.	Factor Set Max	Adj. Maximum
	<b>DHIP</b>	Indoor	0 fc.	100 fc.	50-750 fc.
	<b>DHOP</b>	Outdoor	0 fc.	250 fc.	50-750 fc.
	<b>DHAP</b>	Atrium	2 fc.	1,000 fc.	200-2,500 fc.
	<b>DHSP</b>	Skylight	10 fc.	5,000 fc.	1,000-7,500 fc.

**Input Voltage** 24 VDC

**Output Voltage** 10 VDC full output

**Output Offset** 0 VDC - total darkness

**Sensor Type** Blue-enhanced photo diode

Size and Mounting	Sensor	Lens Filter	Mounting	Orient	Height	Dia.
	<b>DHIP</b>	Fresnel Clear	Ceiling	Down	2.00"	1.23"
	<b>DHOP</b>	Flat Clear	1/2" IPT	Horiz.	1.85"	1.28"
	<b>DHAP</b>	Dome Opaque	1/2" IPT	Horiz.	2.25"	1.28"
	<b>DHSP</b>	Dome Dark	1/2" IPT	Up	2.25"	1.28"

**Wiring** 18 / 3 AWG  
 Red: Pos. DC input  
 Black: DC common  
 Yellow: Output to EMS or control unit

**Warranty** 2 years, limited