

Analog Photocell for Lighting Integrator Complete Control

Color-coded Class 2 connection to panel

All adjustments made via WinControl software



Calibration remote from sensor (compliant with CA Title 24 requirements)

Three application-specific models for easy selection

PROJECT
LOCATION/TYPE

Product Overview

Description

Analog series photocells provide ambient light level measurements to Lighting Integrator Complete Control (LIC) panels, enabling flexible, multi-setpoint control of lighting. The outdoor model, HPSA, is completely weatherproof and equipped with a hooded lens to help protect against snow and glare. Indoor models include the HPSA-S for mounting in skylights, clearstories and atriums, and the HPSA-I, which is ideal for daylight shed applications and is mounted on the ceiling or wall.

Applications

The outdoor model HPSA is typically mounted on the building roof facing north. The HPSA provides exterior ambient light level information to the LIC panel where one or more setpoints have been established to control exterior lighting. The skylight model HPSA-S is designed to be compatible with the high light levels encountered near the glass in skylights, atriums and clearstories. Typically, the HPSA-S will provide light level information to the panel and be used to hold off/shed unnecessary interior lighting during bright daylight hours. The HPSA-I is also used to shed interior lighting in response to daylight, but is designed to operate in the relatively low ambient light levels present at the ceiling in interior rooms.

Operation

Analog series photocells are powered by Class 2 DC voltage supplied from any input terminal on a Group Switching card installed in an LIC panel. The photocells return a DC signal to the panel in proportion to the amount of light striking the photocell lens. No adjustments are needed at the photocell head. Powerful WinControl software normalizes the photocell signal and provides an easy user interface, permitting setup of lighting control scenarios based on footcandle level setpoints. Two modes allow for basic applications where default settings produce the desired control. An advanced mode allows the setpoints, time delays and dead-band to be fine-tuned for more sophisticated application requirements

Features

- Exterior and skylight models provide flexible mounting options via 1/2" threaded conduit fitting
- No calibration or adjustments required at the photocell location; all setup done in software
- Interior model mounts simply, without tools, using the provided peel and stick adhesive
- Color-coded flying leads and matching color-coded terminals in panel simplify installation
- Qualifies for use in ARRA-funded projects

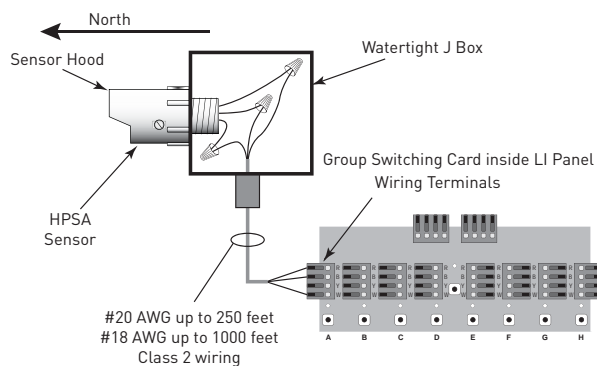


Specifications

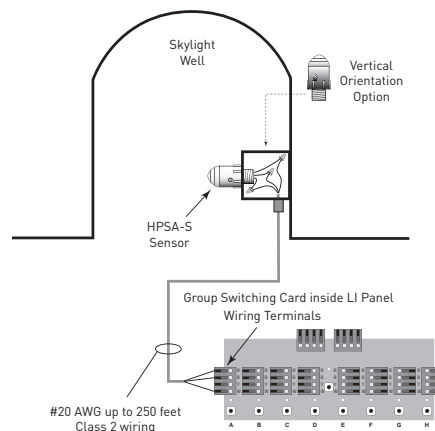
- Calibration: none (controlled by system software)
- Input Voltage: 12VDC
- Sensor Output: 0-4.4 VDC
- Peak Current: 4.5 mA maximum
- Slew Rate:
One minute full scale response time
- Wire Color Code: Red: +12VDC; Black: 0-4.4VDC signal to panel; White: DC common
- Operating Temperature:
-40°F-140°F (-40°C- 60°C)
- Mounting:
HPSA and HPSA-S: ½" NPT x .69" stem;
HPSA-I : 0.5" x .64" stem with 3M® adhesive pad
- Housing: UV stabilized plastic
- Dimensions:
HPSA: 2.25" x 1.28" diameter
HPSA-I: 1.23" x 2.00" diameter
HPSA-S: 2.25" x 1.28" diameter

Application Diagrams

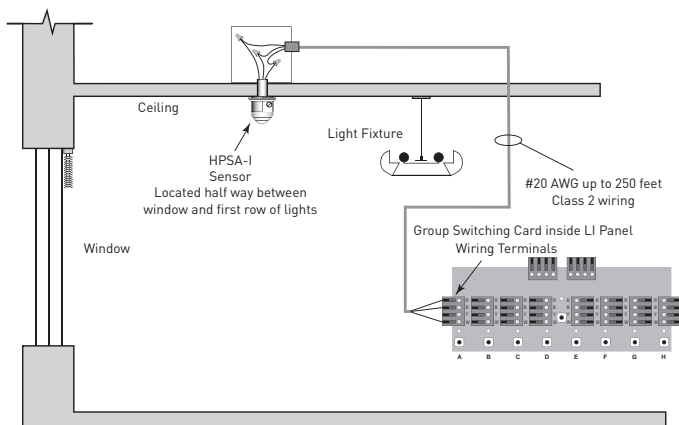
HPSA Outdoor Wiring



HPSA-S Skylight Wiring



HPSA-I Indoor Wiring



Ordering Information

Catalog No.	Description	Application Range
<input type="checkbox"/> HPSA	Outdoor analog photocell sensor, white housing	0 - 200 FC
<input type="checkbox"/> HPSA-I	Indoor analog photocell sensor, white housing	0 - 500 FC
<input type="checkbox"/> HPSA-S	Skylight analog photocell sensor, white housing	0 - 6000 FC

NOTE: May be ordered with custom calibration by adding suffix "X" and stating desired range.