Building Automation, Inc.

DLCPCI/DLCPCO/DLCPCA/DLCPCS
Daylighting Control Photocell Sensors

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DLCPCO

DLCPCA

DLCPCI

KEY FEATURES
- Multiple sensor options available
- Interfaces with Energy Management Systems
- Two-year warranty

OVERVIEW
Hubbell Building Automation's daylighting control photocell sensors (DLCPCI, DLCPCO, DLCPCA and DLCPCS) and the DLCPCC photocell controller provide indoor, outdoor, or skylight control of lighting circuits based on natural daylight. Utilizing these two foundations the DLCPC sensors and controller are able to provide coverage for any application. The DLCPC photocell sensors and controller convert light level measurements to an analog signal that is sent to a energy management system (EMS) to control area lighting by switching banks of lights on and off, or provide continuous signals to electronic dimming ballasts for fluorescent fixtures.

The sensor sensitivity is adjustable. The maximum output voltage can be matched to the maximum light level, in order to provide the highest resolution signal to EMS. Model measurements ranges include 750, 2,500 or 7,500FC. The indoor sensor has a flat 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.

FEATURES and BENEFITS

Features	Benefits
Multiple sensor options available	• Coverage is available for all lighting applications – indoor, outdoor, atrium, and skylight applications
Interfaces with Energy Management Systems	• Enables lighting control from Energy Management Systems

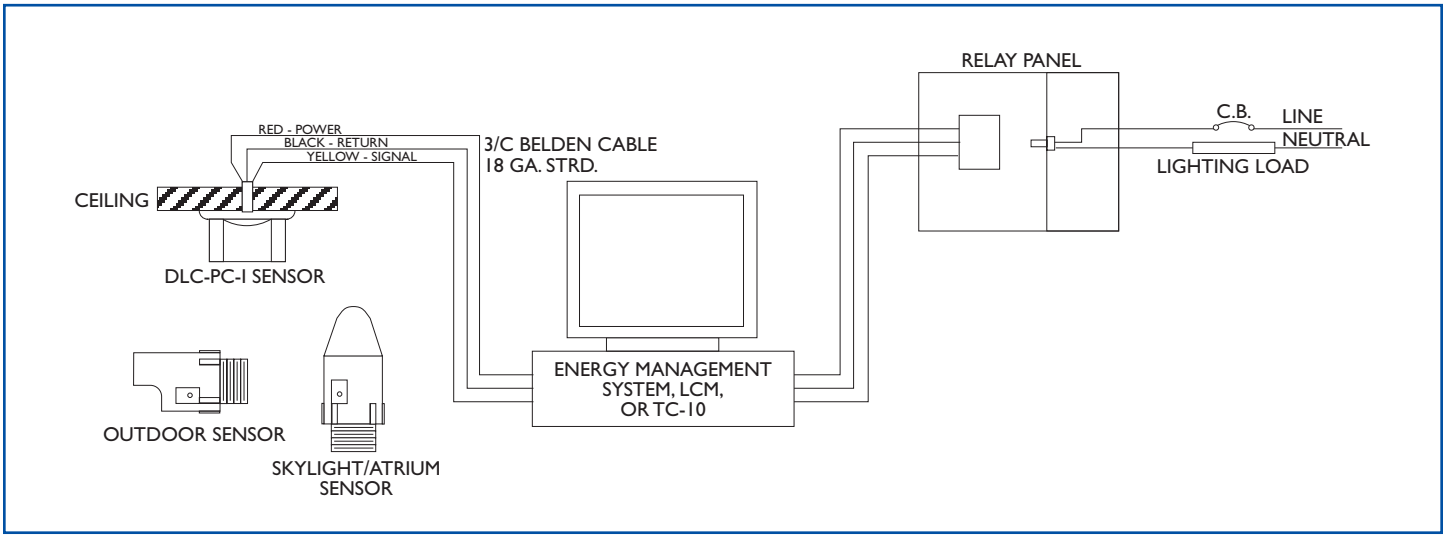
APPLICATIONS
- Parking lots
- Playgrounds
- Storage areas
- Perimeter lighting

SPECIFICATIONS

Accuracy	• +/-1% at 70°f (21°C Derated to +/-5% at 120°F or at) F (-18°C to 49°C)
Operating Temperature	• 13°F to 140°F (-11°C to 60°C)
Sensor Type	• Blue-enhanced photo diode
Sensor Ranges	• Housing Minimum Adjustable Maximum DLCPCI Indoor 5-750FC DLCPCO Outdoor 5-750FC DLCPCA Atrium 200-2,500FC DLCPCS Skylight 1,000-7,500FC
Input Voltage	• 24 VDC

Output Voltage	• 10 VDC full output
Output Offset	• 0VDC or 1 VDC - total darkness
Wiring	• Three conductors 18gauge standard cable Red: Pos. DC input Black: DC common Yellow: Output to EMS
Warranty	• 2 years

Daylighting Control Photocell Sensor Schematic



HOW TO ORDER

Use current DLCPC Sensor Selection Table (but replace "Fresnel" with "Flat" for the DLCPCI item)

Catalog Number	Description	
DLCPCI	Indoor Photocell Sensor	0FC - 750FC
DLCPCO	Outdoor Photocell Sensor	0FC - 750FC
DLCPCA	Atrium Photocell Sensor	2FC - 2500FC
DLCPCS	Skylight Photocell Sensor	10FC - 7500FC

Example

Outdoor photocell sensor for controlling parking lot lights: DLCPCO

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