Provolt™ Line Voltage Photocell

DESCRIPTION
The Leviton Provolt™ Line Voltage Photocell is a first-of-its-kind, self-contained mini Daylight Harvesting System offering the functionality of a low voltage switching or dimming photocell with the robustness of a Leviton power pack. Ideal for Daylight Harvesting applications and lighting control in airports lobbies, commercial lobbies, conference rooms and classrooms. The integrated design alleviates the need for additional components such as a separate power pack and low voltage photocell making it a low-cost, efficient energy solution for new construction and retrofits.

The Provolt Line Voltage Photocell uses patented Daylighting Design Level technology for precise load switching and continual dimming for optimal light maintain levels based on available natural and electric light.

The Provolt Line Voltage Photocell offers installers flexibility when retrofitting areas with existing momentary or maintained switches. To comply with growing energy regulations, the demand response input meets CA Title 24 and ASHRAE 90.1 requirements.

MODELS
• Five models for zone control switching and dimming capabilities
  - Single Relay ON/OFF
  - Dual Relay ON/OFF
  - Single Relay ON/OFF, Single 1-10V Dimming
  - Dual Relay ON/OFF, Dual 1-10V Dimming
  - Single/Dual Relay ON/OFF, Single 1-10V Dimming

FEATURES
• Self-contained, open and closed loop Daylight Harvesting system
• Leviton-exclusive patented Auto-Calibration eliminates the need for on site configuring and less labor costs during Daylight Harvesting configuration
• Includes two removable light pipes (flat or angled) for Open and Closed Loop Daylight Harvesting Applications
• Controls:
  - Manual Switch for Daylight Harvesting
  - BMS integration
  - Demand Response
• Dim to Minimum or Dim to OFF capabilities
• 1-10V sinking ballast or LED ready

DAYLIGHT HARVESTING APPLICATIONS
Daylight Harvesting is an automated lighting control strategy that maximizes the use of natural daylight and minimizes the use of electrical light in response to the availability of natural light in a space. The Line Voltage Photocell uses three types of Daylight Harvesting applications:

• Closed loop: Photocell detects total photometric light from daylight or electric sources in the space

• Open Loop: Photocell detects daylight or electric light only; requires manual calibration

• Adjustable Daylight Design Levels: Normal (OFF) and Auto Calibration

DAYLIGHTING DESIGN LEVELS

Leviton Mfg. Co., Inc. Lighting & Energy Solutions
20497 SW Teton Avenue, Tualatin, OR 97062 1-800-736-6882 Tech Line: 1-800-959-6004 Fax: 503-404-5594 www.leviton.com/les
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PRODUCT DATA

VISUAL INDICATORS
• Visual LED status indicators for all states:
  - Green - Blinks during auto calibration; solid during device malfunction
  - Red - Blinks during photocell manual calibration; solid during device malfunction
  - Yellow - Blinks during test mode; solid with emergency/BMS input
  - Blue - Blinking light indicates photocell override

INSTALLATION
• Easy installation into junction boxes with Leviton-exclusive screw guides, coasters and terminal blocks
• Faceplate ridges make it easy to identify pressure points for simple press and release installation
• Includes a 4x4" cosmetic adapter to enhance final installation and alleviate potential contrast between the sensor and back box

PHOTOCELL OPERATION

Open Loop - Angled Light Pipe

Note: Long side of angled light pipe must face toward natural light source (window)

Closed Loop - Diffused Lens

PHOTOCELL PLACEMENT

Open Loop Application - Angled Light Pipe

Closed Loop Application - Diffused Lens
PRODUCT DATA

WIRING DIAGRAMS

Switching Photocells

Neutral Interface

Emergency Interface

Manual Switch

Dimming Photocells

LOAD OUT L1

LOAD L1

LINE L1

LOAD IN L2

LOAD OUT L2

LINE L2

NEUT. N

CLASS 1 OR CLASS 2

MAN. SW.

EMER. INPUT

M.S. +  M.S. -

DIM 1

DI 10V GRY

DI 0V

DIM 2

DI 10V GRY

DI 0V

* N/C = No Connection

DIMENSIONS

1.16”

(29.00mm)

1.09”

(27.91mm)

4.81”

(122.21mm)

0.94”

(24.06mm)

2.39”

(60.71mm)
### PRODUCT DATA

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>ELECTRICAL</th>
<th>120V, 50/60Hz</th>
<th>240V, 50Hz</th>
<th>277V, 50/60Hz</th>
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<tbody>
<tr>
<td>Load Rating</td>
<td>Current Consumption</td>
<td>60-30mA</td>
<td></td>
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| ENVIRONMENTAL |
|---------------|------------------|
| Operating Temperature | 32° to 104° F (0° to 40° C) |
| Storage Temperature | -14° to 160° F (-26° to 71° C) |
| Relative Humidity | 10% to 90% non-condensing |

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<tr>
<th>OTHER</th>
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<tr>
<td>Listings</td>
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<td>Warranty</td>
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### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>PCC1D-00W</td>
<td>Line Voltage Ceiling Mount Photocell, Low profile 1 Zone, (1) 1-10VDC sinking control signal and (1) relay rated 120-277VAC 50/60Hz. Includes (1) configurable manual switch or BMS/Load Shed input and emergency.</td>
</tr>
<tr>
<td>PCC2D-00W</td>
<td>Line Voltage Ceiling Mount Photocell, Low profile 2 Zone, (2) 1-10VDC sinking control signal and (2) relay rated 120-277VAC 50/60Hz. Includes (1) configurable manual switch or BMS/Load Shed input and emergency.</td>
</tr>
<tr>
<td>PCC1S-00W</td>
<td>Line Voltage Ceiling Mount Photocell, Low profile 1 Zone, (1) relay rated 120-277VAC 50/60Hz. Includes (1) manual switch and emergency input</td>
</tr>
<tr>
<td>PCC2S-00W</td>
<td>Line Voltage Ceiling Mount Photocell, Low profile 2 Zone, (2) relays rated 120-277VAC 50/60Hz. Includes (1) manual switch and emergency input.</td>
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<td>PCCSD-00W</td>
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