Leviton Photocells monitor ambient light levels and provide a DC analog signal to various microprocessors and energy management systems for the purpose of lighting control. There are 4 different styles with 4 different possible ranges for a total of 16 basic varieties.

**Ranges Include:** Indoor, Outdoor, Atrium and Skylight

**Input Return/Output common (+12-24VDC)**

Leviton Photocells are a three-wire device that can provide DC analog voltage inputs to a variety of controllers and microprocessors. In most cases, a 12-24 VDC power source must be supplied to the RED and BLACK wires on the photocell. The photocell will draw 24mW of power. The DC signal voltage is returned to the controller through the YELLOW wire. Wiring the photocell to the controller should be done with 18-22 AWG stranded wire.

- Do not route the low voltage wire with or near AC power wiring.
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- Do not route the low voltage wire with or near AC power wiring.

**CONNECTION**

**INSTALLATION**

**Indoor Photocell – PCIND (Ceiling)**

Mount the indoor photocell in a 1/2" hole in the false ceiling tile using the adhesive backing. For most general applications the photocell should be mounted between 6-8 feet of the window area, central to the area illuminated by the electrical lighting that will be controlled. In all cases the photocell must be mounted so that it looks at reflected light only and not at any direct light. (See Figure 1A)

**Indoor Photocell - PCIND (Reflecting Wall)**

Mount the Indoor photocell at a reflecting wall. When sconces are in place in the light well, make sure not to mount photocell in direct level as the sconces. Place photocell 18" from the bottom corner of the ceiling. Remember, the Fresnel lens will see light with a field of view that is 1.5 times the distance to the wall. No direct lighting should be within the field of view. (See Figure 1C)

**Outdoor Photocell - PCOUT**

Mount the Outdoor photocell in a standard threaded 1/2" conduit or 1/2" knockout. Locate the photocell on the roof or somewhere that is exposed to full daylight and is not shadowed or directly exposed to any night-time illumination. Photocell must be mounted horizontally, facing North, with the hooded portion on top. (See Figure 1C)

**Atrium Photocell - PCATR**

Mount the Atrium Photocell in a standard threaded 1/2" conduit or 1/2" knockout. Locate the photocell at the opposite side of the window mounting the photocell against the wall or ideally in the middle of the atrium expanse, facing towards the Atrium glass. (See Figure 1B)

**Skylight Photocell - PCSKY**

Mount the Skylight photocell in a standard threaded 1/2" conduit or 1/2" knockout. Locate the assembly near the center of the skylight well (at least 12” from the side) that is exposed to full daylight and is not shadowed. For the best results, use uni-strut with a 1/4" angle support, making sure the top of the light photocell is level with top of skylight curb. Photocell must be mounted vertically with the domed portion facing up. (See Figure 1D)

**MAINTENANCE**

Every 2 months wipe the lens clean with a non-scratching clean cloth and ensure that no foreign debris remains. Check the housing for damage such as cracks, burns or other deformations. Check that no moisture has penetrated the photocell, as this will likely render it inoperable.

**PHOTOCELLS**

**CAT. NOS. PCIND, PCOUT, PCATR, PCSKY**

**INSTALLATION INSTRUCTIONS**

**WARNINGS AND CAUTIONS:**
- To avoid fire, shock, or death; turn off power at circuit breaker or fuse and test that power is off before wiring!
- To be installed and/or used in accordance with appropriate electrical codes and regulations.
- If you are unsure about any part of these instructions, consult an electrician.
- **SAVE THESE INSTRUCTIONS.**
**LIMITED 5 YEAR WARRANTY AND EXCLUSIONS**

Leviton warrants to the original consumer purchaser and not for the benefit of anyone else that this product at the time of its sale by Leviton is free of defects in materials and workmanship under normal and proper use for five years from the purchase date. Leviton’s only obligation is to correct such defects by repair or replacement, at its option.

For warranty information and/or product returns, residents of Canada should contact Leviton in writing at Leviton Manufacturing of Canada Ltd to the attention of the Quality Assurance Department, 165 Hymus Blvd, Pointe-Claire (Quebec), Canada H9R 1E9 or by telephone at 1 800 405-5320.

For Technical Assistance Call: 1-800-824-3005 (U.S.A. Only) www.leviton.com

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**FIGURE 1A-1E: LEVITON PHOTOCELL MOUNTING LOCATION**

- **PCIND INDOOR PHOTOCELL MOUNTING LOCATION**
  - Light Fixture
  - 6-8 FT.
  - PCIND Photocell

- **PCATR ATRIUM PHOTOCELL MOUNTING LOCATION**
  - Atrium Photocell
  - Atrium Glass
  - Ideal photocell location is in the middle of the atrium glass facing towards the glass

- **REFLECTING WALL USING PCIND INDOOR PHOTOCELL**
  - Light well - No sconces - Indoor photocell
  - Light well - with sconces (up or up-down)
  - Mount photocell in elevation on centerline of fixture, do not mount directly in line with sconces

- **SKYLIGHT APPLICATION WITH PCSKY SKYLIGHT PHOTOCELL**
  - Top of photocell should be level with top of skylight curb
  - Photocell in 1/2" conduit. Photocell must at least 12" from side of skylight and facing up
  - Notes: Support conduit from unistrut as required per NEC.

- **PCOUT OUTDOOR PHOTOCELL MOUNTING LOCATION**
  - Outdoor photocell mounted in 1/2" conduit
  - North
  - Snow line
  - Outdoor photocell mounted horizontally on roof or equal facing northern sky. Hooded portion on top, pointed away from any nighttime light sources

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