The Crouse Hinds PEC (Photoelectric Controller), part number 52010, is designed for tower and obstruction lighting. The photocell assembly consists of a plastic cover and gasket assembly, and terminal block attached to a cast aluminum weatherproof housing fitted with 1" NPT hubs top and bottom for threaded conduit. The bottom side of the plastic cover has a built-in "notch" which can be used to hang the cover on the flange of the cast aluminum housing so external connections to terminals can be made.

**APPLICATION**

The PEC photoelectric controller is designed to be used for "ON" at dusk, "OFF" at dawn operation of tower and obstruction lighting in aviation service. Light Actuation Levels (Factory Calibrated) are energized at 35 fc and below, and de-energized above 60 fc.

**Specifications:** (meets all FAA specifications)

- **Power Source:** 120 VAC ± 20%, 50/60 Hz
- **Output Rating:** Two SPST N.O. 30 Amp contacts (see connection diagrams)
- **Terminations:** Screw terminals for up to #8 AWG wire

NOTE: The sensitivity of the units is factory adjusted to turn the load ON at 35 fc and OFF at or about 58 fc in accordance with FAA government specifications.

**INSTALLATION**

The controller is designed for outdoor mounting in a vertical conduit run. It should face NORTH (in the northern hemisphere) so that direct sun rays will not hit the photocontrol. Mounting height must be such that no blockage of skylight on the photocontrol window will occur. Light from controlled lighting circuit should not shine on the photocontrol as it may cause unit to turn lights off, setting up an oscillating condition. Although unit has a built-in time delay feature to offset effects of intermittent light sources, care should be used to prevent occurrences of such events.

**CONNECTION TO POWER SOURCE AND LOAD**

1. Remove four (4) cover screws.
2. Turn cover upside down and hang on housing.
3. Make power and load connections as shown in wiring diagram #1. Control should be securely grounded through conduit system, or a separate ground should be connected to the control case to minimize potential damage during electrical storms. Voltage between terminals line and neutral should not exceed 230 volts since this is the input power for the control mechanism.
4. When field connections have been made to the terminal block, reinstall PEC cover using four (4) screws supplied.

**MAINTENANCE**

Only periodic cleaning of the photocontrol window is necessary. If the unit should fail for any reason, replace immediately.

**WARRANTY**

Limited 10-year warranty

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All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds “Terms and Conditions of Sale,” and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.