

SOUTH CAROLINA ELECTRIC COOPERATIVES' ELECTRONIC PHOTOCONTROL SPECIFICATION

1.0 SCOPE

This specification covers 120 VAC and multi-volt (for use on 120 VAC through 277 VAC single phase applications) electronic photocontrols for use with ballasted, HID luminaires.

All units shall adhere to the minimum standards outlined in ANSI C136.10 (latest revision). Where this specification and ANSI C136.10 conflict, this specification shall take precedence.

Any exceptions to this specification shall be stated on proposal and approved by the purchaser.

2.0 OPERATING AND ELECTRICAL REQUIREMENTS

- 2.1 Both 120v and multi-volt controls shall be rated to handle 1800VA.
- 2.2 Multi-volt controls used for nominal voltages between 120v and 277v shall be rated to handle a continuous voltage as low as 105v or as high as 305v with no loss of life or change in operating characteristics.
- 2.3 Power consumption of the unit shall be less than 2 watts for all operating voltages. Maximum power consumption of quoted unit shall be provided with quotation.
- 2.4 Surge protection shall be provided by MOV with a minimum rating of 320 joules wired line to neutral. Secondary surge protection shall be provided to protect components.
- 2.5 Units shall be rated to turn on “instantly” at 1.0fc +/- 0.3fc.
- 2.6 Units shall be rated to turn off with a 1s to 5s delay at 2.0fc.
- 2.7 Photocontrol shall be designed to fail in the “on” position.
- 2.8 Male “twistlock” contacts shall be solid brass.

- 2.9 Light sensor shall be either cadmium sulfide or phototransistor type. Phototransistor type light sensor is preferred for coastal applications. Type sensor quoted must be specified on proposal.
- 2.10 Each unit shall be individually tested and calibrated.
Electronic Photocontrol Specification

3.0 MECHANICAL REQUIREMENTS

- 3.1 Housing color shall be gray for 120v controls and blue for multi-volt controls in accordance with ANSI C136.10.
- 3.2 Cover and sensor window shall be UV, ozone, and impact resistant.
- 3.3 Unit shall be able to operate in the ambient temperature range from -40°F to +158°F and the base of the unit designed to withstand up to 120°C operating temperature with no loss of expected life and no change in operating characteristics.
- 3.4 Unit shall be properly gasketed and sealed to prevent water entry.
- 3.5 Provision for marking month and date of installation shall be furnished on the base of the control.

4.0 WARRANTY

The manufacturer shall provide a warranty for a minimum of 6 years from date of shipment providing 100% replacement of any units that fail due to manufacturer related defects.