

STREETLIGHT PHOTOCONTROLS



1. Scope

This standard applies to the following Seattle City Light Stock Numbers:

Stock Number	Description
569333	Streetlight photocontrol
569334	Shorting cap

2. Application

Photocontrols are used as light-sensing switches to control luminaries. Photocontrols are designed to switch lamps off during the day and switch lamps on at night.

A shorting cap is installed in place of photocontrol when a lamp is needed to stay on 24 hours a day.

3. Industry Standard

Streetlight photocontrols and shorting caps shall meet the applicable requirements of:

ANSI C136.10-2006 - American National Standard for Roadway and Area Lighting Equipment—Locking-type Photocontrol Devices and Mating Receptacles—Physical and Electrical Interchangeability and Testing

4. Construction

4.1 Common

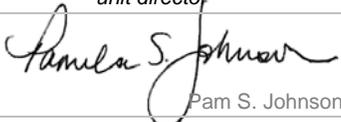
Photocontrols and shorting caps shall be provided with a means of sealing according to the requirements of ANSI C136.10, Section 4.3.

4.2 Photocontrols

Color code	blue
Plug type	locking type, three-pole, three-wire
Photosensor type	silicon
Operating voltage range, volts, ac	105 to 305
Load rating, incandescent lamp, minimum, watts	1,000
Load rating, high-intensity discharge (HID), minimum, VA	1,800
Operating temperature range, ambient, degrees C	-40 to +65
Turn on response time range, seconds	0.5 to 5.0
Turn off response time range, seconds	0.5 to 5.0
Turn on light level, fc	2.8 +/- 0.6
Turn off light level, maximum, fc	5.1
Turn-off/turn-on ratio, nominal	1.5
Failure mode, nominal	fail-on

Each photocontrol shall be provided with a means to conveniently and permanently record date of installation and date of removal.

Each photocontrol shall be provided with an internal, 160 joule minimum, metal-oxide varistor (MOV) type surge arrester.

standards coordinator	standards manager	unit director
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MATERIAL STANDARD

4. Construction, continued

4.3 Shorting Caps

Color code	black
Plug type	locking type, three-pole, three-wire

5. Design Changes

Manufacturer shall inform Seattle City Light in writing of all design changes that could affect the product's understood or published capabilities.

6. Testing

Photocontrols and shorting caps shall be tested according to the requirements of ANSI C136.10. Test results shall be provided upon request.

7. Marking

Each individual photocontrol and shorting cap shall be marked with the following information:

- Manufacturer's name
- Model number
- Voltage rating
- Load rating
- North orientation
- Rotation of installation and removal

8. Packaging

Photocontrols and shorting caps shall be individually packaged to prevent damage from storage and handling.

From the outside of each individual package, the manufacturer's name and model number shall be clearly visible.

Each shipping container shall be legibly marked with the following information:

- Manufacturer's identification
- Product description
- Seattle City Light's Purchase Order Number
- Seattle City Light's Stock Number

Shipping container weight shall not exceed 50 pounds.

9. Issuance

Stock Unit: EA

10. Approved Manufacturers

Manufacturers	Catalog Numbers	
	Photocontrol SCL Stock No. 569333	Shorting Cap, SCL Stock No. 569334
Area Lighting Research (ALR)/ Tyco	6190-VPS	MC-10
Dark to Light (DTL)	DP124-2.6-TJ J50	RA1013
Fisher Pierce Outdoor Lighting Controls (OLC)	7673C-70578	FPS1039
Selc	8483	8483-SC
Sun-Tech	P124-2.5-SCL	S-1039

11. References

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 Smalley, Ed; subject matter expert; (ed.smalley@seattle.gov)