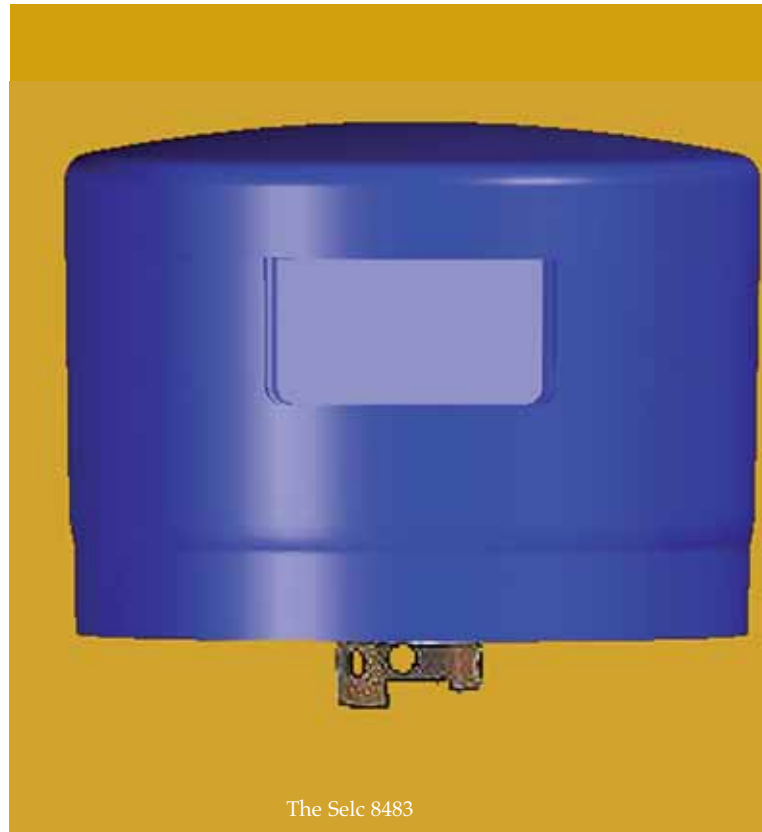


# Selc 8483

Locking Type North Facing Multivoltage Photocontrol

## Key Features

- Very accurate light sensing
- North facing light sensing
- RAT switching up to 1000 VA
- IP67 sealed enclosure
- Temperature contained within enclosure so as to eliminate condensation
- Better than 25 years life expectancy
- Plastic cover with a North facing window ensuring good ambient light transmission during its lifetime
- One part, easy to install
- Designed to operate on voltages with extreme dips and fluctuations and brown-outs
- Available in Nema twistlock



The Selc 8483

## Applications

- Street and road lighting
- Security and floodlighting
- Amenity and sign lighting
- All type of industrial and consumer external lighting
- All types of high intensity discharge lighting up to 1000 VA
- Other loads that utilise dusk to dawn as the switching method

## The Selc 8483 range offers...

1. Energy saving
2. Control of all HID lamps up to 1000 VA
3. A switch 'on' and 'off' accuracy better than any other photocell
4. A lifetime in excess of 25 years
5. Automatic switch 'on' and 'off' of all types of external lighting

**The Selc 8483** is the first P.E.C.U. to incorporate a customised photo detector with a spectral filter approximating that of an accurate colour-corrected cosine corrected photometer, so as to further improve the already accurate sensing as experienced with the past range of photocells. Phototransistors and photodiodes do not experience internal drift when compared with cadmium sulphide detectors and any measurable drift is calculated in millions of hours. Their use in light detection is now of importance, due to the increased awareness by electricity supply utilities of the high drift associated with other detectors.

The enclosure material DIAKON™ acrylic has excellent weathering properties and in transparent form shows little if any degradation of transparency under conditions of intense sunlight over long periods of time.

The patented RAT switching technique has been employed successfully in photocontrols by Selc for many years. Independent laboratory testing has clearly proved thirty thousand switching cycles switching 3 X 400 Son high pressure sodium lamps + gear incorporating 135 Micro Farad total Load capacity. Each cycle consisted of 2 minutes "on" followed by 2 minutes "off". No deterioration in switch performance was observed after the completion of the tests.

## High Tech Dusk to Dawn Lighting Controller

*guaranteed for 12 years*

### Specifications 8483 PECU

Type	Electronic - Solid State
Voltage	105 to 305 V AC 50-60 Hz
Switch On/Off Ratios	1:0.5 (inverse ratio) as standard others on request
Switch On Level	3Fc ,other levels on request
Light Sensor	Silicon integrated photodiode+amplifier with spectral and angular response approximating that of an accurate colour-corrected cosine corrected photometer
Load Handling	1800 watts, 1000VA
Load Current (Inrush)	168A,60Hz 1 cycle
Switch Type	Relay Assisted Triac
Operating Temperature	-40 to 158 Deg F
Load Current (Continuous)	16 Amps Maximum
Switching Delay On	No "on" delay as standard (on request)
Switching Time Delay Off	3.5s standard others on request
Switching Time Delay On	No delay as standard, on request
Switch ON: Switch OFF	1:0.5 (inverse ratio)other ratios on request
Enclosure Materials	Diakon™acrylic
Circuit Power Consumption	350 Milli Watts Nominal @ 230V
Power Loss During Load Handling	Negligible
Guarantee	12 Years
Manufacturing Standard	I.S. E.N. ISO 9001-2000
P.E.C.U Standard	B.S. 5972
Enclosure Sealing	I.P. 67
Surge Protection	320V,320J (2ms) MOV or customer specification

