

SELC 8481

Locking Type Upward Facing Multivoltage Photocontrol.



Key Features

- Very accurate light sensing
- Omni directional ambient light sensing
- RAT switching up to 1800W, 1000 VA
- IP67 sealed enclosure
- Temperature contained within enclosure so as to eliminate condensation
- Better than 25 years life expectancy
- Plastic conical cover ensuring good ambient light transmission during lifetime
- One part, easy to install
- Designed to operate on voltage with extreme dips and fluctuations and brown-outs
- 2 to 30 second time delay or customers specification
- Available in Nema twist lock or hard wired versions

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 1800W, 1000 VA
- Other loads that utilise dusk to dawn as the switching method



The Selc 8481 Multi Volt

The Selc 8481 Multivoltage suitable for use on mains power systems operating between 105-305V volts 50/60Hz..

The Selc 8481 Multivoltage Features

- A highly regulated switch mode power supply.
- State-of-the-art micro-controlled circuitry for control of sensing time delays and R.A.T. switch sequencing.
- The patented Relay Assisted Triac (RAT) switching has been employed successfully in photocontrols by Selc Ireland Limited for many years. BSI Testing in the United Kingdom has tested the (RAT) switch for **thirty thousand switching cycles** switching 3 X 400W high pressure sodium lamps+gear incorporating 135uF total load capacitance. Each cycle consisted of 2 minutes on followed by two minutes off. **No deterioration in performance was observed** after completion of the test..
- All Selc PECU's are fitted with mains transients suppressors so as to increase both the life of the unit and lantern.
- The hard-wired configuration method is invaluable where photocells are installed in areas of high vandalism.
- The DIAKON™ acrylic enclosure material 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.

High Tech Dusk to Dawn Lighting Controller

guaranteed for 12 years



Specifications 8481

Operating Voltage	105 to 305 volts 50/60 Hz AC
Load Current Continuous	16 amps, 50/60 Hz AC
Load Current (inrush)	168 amps, 60 Hz 1 cycle
Switch Type	Relay Assisted Triac (RAT)
Failsafe Mode	Failsafe to OFF or ON (or per spec)
Surge Protection	320V,320J (2ms) Metal Oxide Varistor
Switch on light level	3 FC standard, other light levels on request
Switch "ON" "OFF" Ratio	1:0.5 (inverse ratio) as standard, other ratios on request
Switch On Time Delay	No "on" delay as standard, on request
Switch Off Time Delay	3.5s as standard, others on request
Light Detection Sensor	Silicon integrated photodiode+amplifier with spectral and angular response approximating that of an accurate colour-corrected cosine photometer
Operating Temperature	-40°F to +158°F
Enclosure Material	Diakon™ acrylic
Enclosure Sealing	IP67(EN 60529)
Supply Load Connection	3 Pin plug-in locking (nema)
Circuit Power Consumption	350mW nominal @ 230V AC