



SEL C Ireland Limited
IDEA • INNOVATION • REALISATION



SEL C 8483

Long Life Plug-in Locking Type
North Facing Multivoltage Photocontrol.

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The Selc 8483

The Selc 8483 photocontrol incorporates a customised photodetector with a spectral filter approximating the performance of an accurate colour-corrected cosine corrected photometer, so as to further improve the already accurate sensing as experienced with the past range of Selc photocontrols. 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 patented Relay Assisted Triac (RAT) switching technique has been employed successfully in photocontrols by Selc Ireland Limited for many years. BSI Testing in the UK 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 tests.

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

Key Features

- Accurate light sensing
- North facing light sensing
- Relay Assisted Triac switching up to 1800VA, 1000 W
- IP67 sealed enclosure
- Plastic cover with a Diakon™ acrylic North facing window ensuring good ambient light transmission during its lifetime
- One part – easy to install
- Better than 25 years life expectancy

Applications

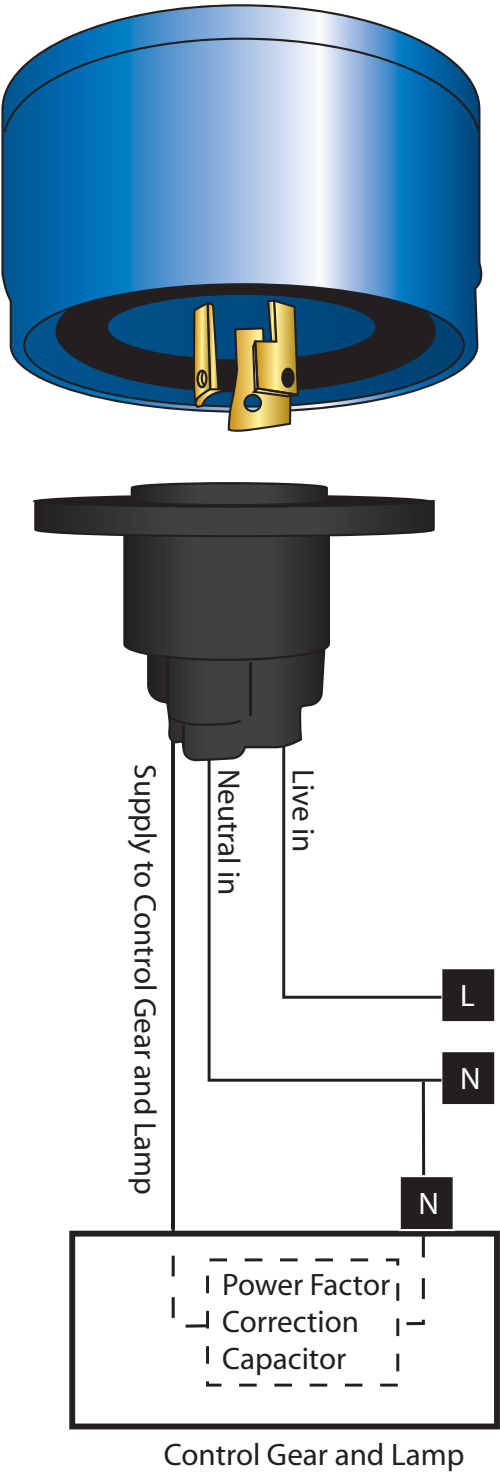
- Street and road lighting
- Security and floodlighting
- Amenity and sign lighting
- All type of industrial and consumer external lighting
- All types of high intensity discharge lighting up to 1800VA
- Other loads that utilise dusk to dawn as the switching method

The Selc 8483 range offers...

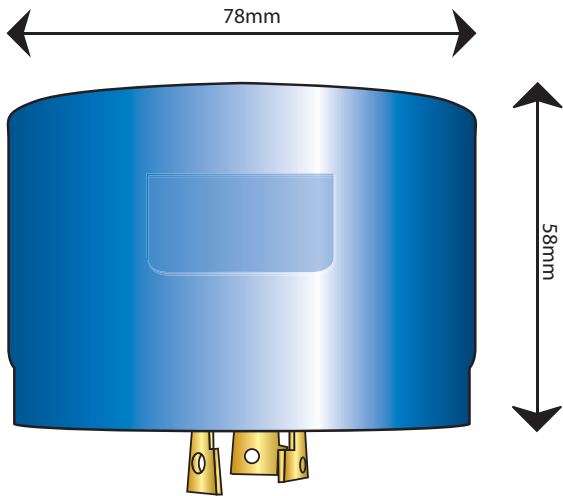
1. Energy saving
2. Control of all HID lamps up to 1800VA, 1000W
3. A switch ON and OFF accuracy better than other photocontrols
4. An expected lifetime in excess of 25 years
5. Automatic switch ON and OFF of all types of external lighting

SELC ROAD AND STREET LIGHTING for a brighter, greener world

Selc 8483 Wiring Diagram



Selc 8483 Dimensions



High Tech Dusk to Dawn Lighting Controller

guaranteed for 12 years

Specifications **Selc 8483**

Voltage	105 – 305 V~, 50/60 Hz
Load Rating	1800VA, 1000W
Load Current (continuous)	16A maximum
Load Current (inrush)	168A, 60Hz 1 cycle
Switch Type	Relay Assisted Triac (RAT)
Switch ON Level	3fc standard, other levels on request
Switch ON : Switch OFF	1:0.5 (inverse ratio) standard, other on request
Switching ON Time Delay	No delay standard, others on request
Switching OFF Time Delay	3.5s standard, others on request
Light Sensor	Silicon integrated photodiode+amplifier with spectral and angular response approximating that of an accurate colour-corrected cosine corrected photometer
Power Consumption	350mW nominal @ 230V~
Surge Protection	320V, 320J (2ms) Metal Oxide Varistor
Enclosure Materials	Diakon™ acrylic
Enclosure Sealing	IP67 (EN 60529)
Operating Temperature	-40 to +70°C (-40 to +158°F)
Guarantee	12 Years
Manufacturing Standard	IS EN ISO 9001:2000
Fail-ON/Fail-OFF	Must be specified in advance. Note that ANSI C136.10 does not specify an enclosure colour for a Fail-OFF control with a 105–305 voltage range



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