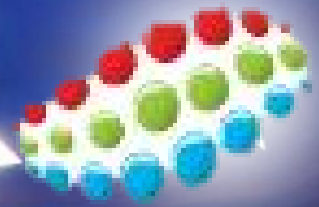


# WESTIRE 8480-PN & 8482-PN Part-Night Long Life Photocells



The WESTIRE 8480-PN and 8482-PN will switch "On" at dusk and "Off" at dawn on their first night of operation as the microprocessor must collect the necessary information so as to calculate "Midnight". On the following night their part-night function will commence as per the part-night regime selected.

All the WESTIRE part-night photocells have in-built calculated midnight software features. Those in-built timing features will switch off the road and street lights at the set calculated midnight time and "On" again at the specified switch "On" dawn time and "Off" again at morning set ambient light level set time.

The dusk to dawn normal photocell switch "On" and switch "Off" are as set by the specified customers needs.



## The Midnight Switch Off Photocells

**Guaranteed  
For 10  
Years**



WESTIRE Technology Limited

### Key benefits of Part-Night Photocells

- Ambient accurate light sensing with zero drift of the sensor over the photocells life
- Special anti-weathering plastic enclosure material IP 67 sealed
- Incorporates a state of the art microcontroller part-night software configured with a unique internal time tracker
- Circuit power consumption <0.25 watts @ 230V 50Hz
- Controls reactive LED, SON or Sox lighting loads

The RAT switch has been independently tested to 30,000 on the switching cycles on loads of: 3 X 400 Watt High Pressure Sodium Luminaires

## Fit & Forget

All WESTIRES Products are manufactured within the European Union including the WESTIRE Long Life Photocells and in compliance with all the necessary EU Directives applicable to Road and Street Light Controls. Automated State of the Art Production Machinery is utilised for manufacturing along with all the necessary computerised test equipment and burn-in ovens. Regular independent audits are carried out so as to ensure full compliance with I.S. EN ISO, UL and CUL manufacturing standards

The WESTIRE 8480-PN & the 8482-PN Part-Night Photocells utilize calculated "Midnight" referencing in its state of the art micro-controller. This micro-controller is also programmed to deliver "dusk" to "dawn" switch "on" and switch "off" of the road and street lights depending on the ambient light levels and ratio's chosen.

Those WESTIRE Part-Night Photocells also make use of the PATENTED RAT (Relay Assisted Switching) circuitry similar to the WESTIRE Long Life "dusk" to "dawn" photocells. This ensures that all the WESTIRE Long Life photocells can control all types of road and street lighting loads. Lighting loads of 10 Amps reactive can be controlled without any negligible power loss during the make or break operation or when carrying the load.

Mains lightning, surge and transients protectors are incorporated in all WESTIRE Long Life Photocells and are chosen in full cooperation and consultation with each specifier.

### Technical Specifications 8480-PN & 8482PN Part-Night Photocells

<b>Operating Voltage</b>	<b>200 – 260 V 50/60Hz</b>
<b>Switching Ratios</b>	<b>1:2; 1:1.5; 1:1; &amp; 1.0.5</b>
<b>Switching "On" "Off" Levels specification</b>	<b>Set at 70 Lux or to agreed</b>
<b>Ambient Light Sensor Drift</b>	<b>Zero over the guaranteed life</b>
<b>Switching Time Delay</b>	<b>25 seconds</b>
<b>Part-Night Switch Off</b>	<b>Midnight plus 5 hours</b>
<b>Load Handling</b>	<b>3 X 400 Watt HID Luminaires</b>
<b>Maximum Constant Load Current</b>	<b>10 Amps reactive</b>
<b>Operating Temperature Range</b>	<b>-20°C to + 70°C (-20°F to +158°F)</b>
<b>Cone Weathering Performance over 6 years (Tested)</b>	<b>&lt;1% decrease in light transmission</b>
<b>Enclosure Sealing</b>	<b>IP 67</b>
<b>Circuit Power Consumption</b>	<b>&lt;0.25Watts</b>
<b>Guarantee</b>	<b>10 Years</b>
<b>Manufacturing Standard</b>	<b>IS EN ISO 9001:2008</b>
<b>Photocell Compliance</b>	<b>To the applicable sections of BS5972</b>
<b>EMC Compliance</b>	<b>EN55015, EN61547, EN61000-3-3</b>
<b>Mains High Voltage, Transient &amp; Lightning Suppressor</b>	<b>120 Joule or to requested specification</b>

**100% Burned-In for a period of 48 Hours**

**Expected lifetime of 25 years plus**

\*Guarantee subject to WESTIRE Terms & Conditions



WESTIRE 8482-PN

WESTIRE 8480-PN

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