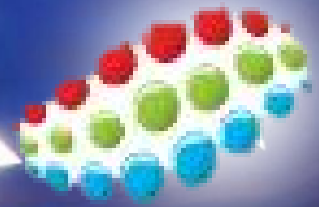


WESTIRE 8480, 8481, 8483 & 8480-H Long Life Photocells



The WESTIRE 8480, 8481, 8483 & 8480-H Long Life Photocells incorporate a silicon integrated photodiode + amplifier with spectral and angular response approximating that of an accurate colour-corrected cosine photometer. The use of silicon light sensors in light detection is of great importance, due to the increased awareness by electricity supply utilities of the high drift associated with other detectors.

These Long Life Photocells also employ the patented WESTIRE Relay Assisted Triac (RAT) switching technique which has been employed in WESTIRE lighting controls to reliably switch reactive lighting loads for decades.

WESTIRE Long Life Photocells are manufactured in the EU to the highest standards offering you the most reliable street light on/off switching solution.



WESTIRE Long Life Photocells



WESTIRE Technology Limited

Key benefits of Long Life Photocells

- Accurate evening to evening switching
- RAT Patented switching with negligible power loss in RAT switch
- Special anti-weathering plastic enclosure material
- Incorporates a state of the art microcontroller
- Circuit power consumption <0.25 watts @ 230V 50Hz (WESTIRE 8480, 8480-H)
- Controls reactive WESTIRE 8480-H)

The RAT switch has been independently tested to 30,000 on the WESTIRE 8480

- switching cycles on loads of 3 X 400 Watt High Pressure Sodium Luminaires

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, 8481 and 8483 have a three blade plug-in locking electrical connection. The WESTIRE 8480-H has a 3 cable flying lead hard-wired electrical connection system and an M20 threaded mounting secured by locknuts and gaskets.

The WESTIRE 8481 and 8483 incorporate a universal power supply capable of operating on voltages from 105 to 305 Volts 50/60 Hz. The WESTIRE 8483 has a North facing window; the WESTIRE 8480, 8481 and 8480-H have upward facing light sensors that can view the whole sky.

All these Photocells are available with user specified switch on illumination levels (specified in lux (lx) or foot candles (fc)) and with user specified switch "on" and switch "off" light levels i.e. the "switching ratio" and user specified time delays.

Technical Specifications

	8480	8481	8483	8480-H
NEMA base				
Hard Wired				
Supply Voltage	200 to 260 Volts 50/60 Hz	105 to 305 Volts 50/60 Hz	105 to 305 Volts 50/60 Hz	200 to 260 Volts 50/60 Hz
Power supply power consumption	< 250mW @ 230V 50Hz	350mW nominal @ 230 volts AC	350mW nominal @ 230 volts AC	< 250mW @ 230V 50Hz
Maximum load current (A)	10	16	16	10
Load rating	2kVA	1800VA, 1000W	1800VA, 1000W	2kVA
Operating Temperature	-20°C to + 70°C	-40°F to 158°F	-40°F to 158°F	-20°C to + 70°C
Switch On Levels	70 lux (others on request)	3fc (others on request)	3fc (others on request)	70 lux (others on request)
Light sensor	Colour corrected silicon photodiode + amplifier	Colour corrected silicon photodiode + amplifier	Colour corrected silicon photodiode + amplifier	Colour corrected silicon photodiode + amplifier
Switch On : Switch Off Ratio	1:0.5 standard (others on request)	1:0.5 standard (others on request)	1:0.5 standard (others on request)	1:0.5 standard (others on request)
Enclosure protection rating	IP67	IP67	IP67	IP67 when fitted correctly to a suitable enclosure
On to OFF and OFF to ON time delays	25 seconds standard (others on request)	25 seconds standard (others on request)	25 seconds standard (others on request)	25 seconds standard (others on request)
Standards Compliance	Environmental RoHS and WEEE		Manufacturing IS EN ISO 9001: 2008	

*Guarantee subject to WESTIRE Terms & Conditions

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8483

8480, 8481 & 8480 H

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