



These top of the range models meet and in most cases exceed all national and international specifications having the unique facility of a self test on initial power up. The output is via a Bi-stable relay with Patented *Synchronous Switching*. The units fit in to the NEMA standard socket, and are also available in 20mm conduit thread fixing with flying leads (suffix code with 'C').



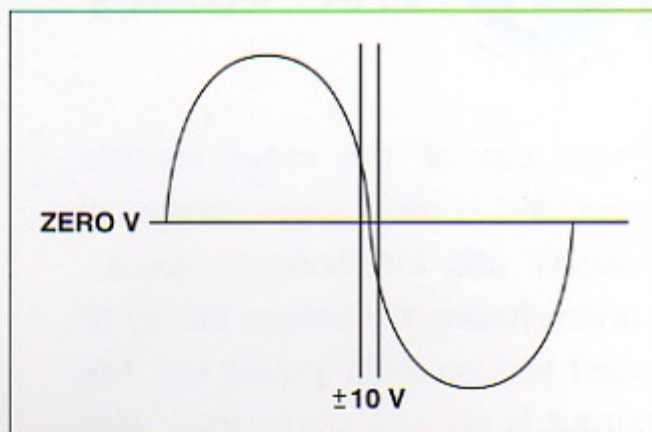
Technical Specification

Description	OASIS 1000	OASIS 2000	OASIS 3000
Voltage - 220-270 Vac	●	●	●
High Quality Encapsulated Transformer			●
Load - 3 x 400 HPS 10A		●	●
Load - 3 x400 HPS	●		
Lux Setting ON Factory Set Levels 5-200 Lux (70 Lux Standard)	●	●	●
Lux Setting OFF Factory Set Levels 5-200 Lux (35 Lux Standard)	●	●	●
Protection to IP	IP67	IP67	IP67
Sensor - Filtered silicon photodiode	●	●	●
Sensor Drift	Zero over 10 years	Zero over 10 years	Zero over 10 years
Switching Cycles	40,000	40,000	40,000
Operating Temperature	-20°C to +80°C	-20°C to +80°C	-20°C to +80°C
Guarantee Period	6 Years	10 Years	10 Years
Surge Protection 160 Joule Metal Oxide Varistor		●	●
Power Consumption	0.25 Watt	0.25 Watt	< 1 Watt
Optical Performance Of Stated Switch Levels	+/- 10%	+/- 10%	+/- 10%
Certified to - EMC Emission to EN 50081-1 EMC Immunity to EN 50081-2 BS 2011 Vibration, BS 5972-1980	●	●	●

SYNCHRONOUS SWITCHING

Royce Thompsons Patented Synchronous Switching is a method of ensuring that the relay contacts close when the cycle is at zero. The circuit which enables this procedure is incorporated in the patented *Application Specific Integrated Circuit*. How does it work?

When the relay is required to switch, the circuit monitors the part of the cycle it is in, then holds the relay operation until the relay can operate with the contact voltage at zero.



STATE MACHINE

The State Machine incorporated in the patented ASIC enables the units to be set to greater accuracy. It consists of four states, 'DAY', 'DUSK', 'NIGHT' & 'DAWN'. The *DAY* state is any light level over 250 lux and the unit will stay in this state until the light level reaches the pre-set *DUSK* state (5-240 Lux) the load will switch instantly, and will remain in this state unless daylight goes back to the *DAY* state and the load will switch *OFF*. If daylight keeps dropping until the *NIGHT* state then the unit will be set for the *DAWN* state (5-240 Lux) when this preset level is reached after a delay the unit will switch *OFF*.



Ace Business Park, Mackadown Lane, Kitts Green, Birmingham B33 0LD
Telephone 0121 785 4700 Fax 0121 785 4717

Direct Freephone Sales Line 0500 822000

Email sales@roycethompson.com www.roycethompson.com