

# ROYCE THOMPSON

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## Installation Notes for **Monostar Photo Electric Control Unit.**

### **FITTING**

Choose a suitable location that avoids direct or reflected lights from other sources reaching the photocell sensor whilst at the same time allowing clear and unobstructed view of daylight. Also avoid placing the photocell under the eaves of a building and facing upside-down, these location will causing the photocell to switch ON early and may prevent the unit from switching OFF on a dull day.

The **Monostar** photocell fits into a standard NEMA-type 3-pin socket. Fit the photocell by plugging it into the socket and pushing down and firmly before twisting it clockwise to complete the circuit.

The photocell sensor faces directly upward making north orientation unnecessary.

DATA.....	Voltage	200-270V ac 50Hz
	Maximum Load	Mono1000 2x 250w & Mono2000 2x400w
	Switching Level	70 Lux or as marked
	Switching Differential	1 : 0.5 (negative) or as marked

CONNECT AS FOLLOWS:    Socket terminal Li.....Line – In-coming phase supply.  
                                  Socket terminal N.....Neutral  
                                  Socket terminal Lo.....Load – Out going switched live.

The neutral for the load should be taken direct and not through the control unit.

### **TESTING (Under daylight condition):**

When power is first switched on, the load will be Live within 5 second. With the Photocell uncovered wait approximately 40 seconds for the Load to switch OFF. Cover the photocell and the load will switch ON instantly. Uncover the photocell and leave for automatic ON/OFF operation. In automatic operation, the unit turns ON instantly as soon as the light level falls to the pre-set ON level and OFF at the pre-set OFF level after a delay of approximately 40 second.

**N.B.....When bench testing a Monostar, use a tungsten light source. Ambient fluorescent light may not be sufficient to demonstrate full functionality.**

### **TROUBLESHOOTING**

- Load does not switch on when unit covered..... *1/ Check daylight is excluded from cell.  
2/ Check switched load output.  
3/ Unit may still be in self test. Uncover unit and retry after 20secs.*
- Unit will not switch OFF..... *1/ Check input supply.  
2/ Check daylight on cell is not obscured.*
- Unit cycles ..... *1/ Load and Line connections reversed.*

### **CAUTION**

Isolate from mains before carrying out maintenance. **Note** that when first switched ON, these units will energise the lamp circuit, and the lamp holder contacts will be "live" until the unit has turned OFF in daylight. Insulation testing by suitable instrument can be carried out on circuits including photocells, but not continuity tests, as the high voltage used may damage the sensor and electronics.