

**NEW  
TECHNOLOGY**



This electronic photocontrol unit embodies state of the art technology recently developed by Royce Thompson Limited that will have a major impact on the industry. The new patent pending synchronous switching technology controls and reduces high inrush currents.

At the centre of this pioneering technology is our advanced circuitry with a new Application Specific Integrated Circuit (ASIC), which controls sensing, time delay and synchronous load switching.

The filtered silicon photodiode, which closely matches the CIE photopic response, is noted for its drift free performance and accuracy. It is extremely consistent day to day and from unit to unit. Long-term data logging of these units and the competition clearly demonstrates the superior performance of the product.

Engineered for value, with a 20 year expected life and carrying a 6 year guarantee, these controls are rated for 20,000 cycles of switching. Load handling is 3 x 400W HPS and the units have the lowest night and day power consumption of their type, which means reduced energy costs. The new cone and base were specifically redesigned to achieve an IP67 rating, which is standard on this unit.

The ER5 represents outstanding value, offering extreme reliability over a very long life. It combines accuracy of switching, with the capacity to handle the highest loads specified by the industry. Clearly it establishes a benchmark for others to follow.

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Certificate No. FM 13085



Royce Thompson Limited is a subsidiary of Pacific Scientific Company, Newport Beach, California, USA

# Electronic Unit *ER5N* one part

## STREET LIGHTING CONTROL

### TECHNICAL SPECIFICATION

#### SENSOR

Filtered silicon photodiode

#### SENSOR DRIFT

Zero over 6 years

#### SWITCHING LEVEL

70 Lux standard

#### SWITCHING DIFFERENTIAL

1: 0.5 Negative

Positive on request

#### VOLTAGE

50Hz 230V  $\pm 10\%$

#### MAXIMUM LAMP LOAD

3 x 400W HPS 96 $\mu$  PFC

#### MAXIMUM RESISTIVE LOAD

8 Amps

#### SWITCHING DELAY

15 - 30 Seconds

#### SWITCHING CYCLES

20,000

#### POWER CONSUMPTION

0.25W

#### OPERATING TEMPERATURE

-20°C to +80°C

#### INGRESS PROTECTION

IP67

#### CERTIFIED TO

EMC Emission: to EN 50081-1

EMC Immunity: to EN 50082-1

BS 2011 Vibration

BS 5972: 1980