

# Electronic Units

## ER4N two part

### STREET LIGHTING CONTROL



These electronic controls embody state of the art technology recently developed by Royce Thompson Limited. 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 miniature sensor of these two-part units is a sealed and filtered silicon photodiode, which gives reliable, drift free photometric performance. It has excellent unit to unit consistency, ensuring lanterns will switch on and off together.

The base units have an auto/test switch on the front of the control and typical of Royce Thompson electronic units, they have a low power consumption.

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 capacity is 3 x 400W HPS and the units have the lowest night and day power consumption of their type, which means reduced energy costs.

They provide excellent value in terms of reliability, consistency and long life and are guaranteed for six years.

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### 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 $\mu$ F 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

IP54

#### CERTIFIED TO

EMC Emission: to EN 50081-1  
EMC Immunity: to EN 50082-1  
BS 2011 Vibration  
BS 5972: 1980