

**NEW
TECHNOLOGY**

Electronic Units ER301N/ER302N *one part*

STREET LIGHTING CONTROL



These electronic controls have been developed for applications where budgetary considerations are paramount, but they also embody state of the art technology developed by Royce Thompson Limited. The new patent pending synchronous switching technology controls and reduces high inrush currents. They provide excellent value for money by offering consistent performance, combined with a high level of reliability and a long life.

The ER302 with an unfiltered silicon photodiode sensor offers the lowest priced one part electronic control in the Royce Thompson range, giving reliable, drift free photometric performance with excellent unit to unit consistency. This ensures that all lanterns will switch on and off together.

The ER301 with a filtered silicon photodiode offers competitive pricing, combined with excellent day to day and unit to unit consistency. This is clearly demonstrated by long-term data logging, which shows the superiority of these units over the competition.

Value engineered for a 10 year expected life and carrying a 3 year (302) or 4 year (301) guarantee, these controls are rated for 6000 cycles of switching. At less than 0.5W they also have a much lower power consumption than thermal or some electronic types. The new cone and base were specifically redesigned to achieve an IP67 rating, which is standard on this unit.

The ER301/302 represent outstanding value for reliability, consistency and long life, where the quality/price of electronic photo cells is critical.

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TECHNICAL SPECIFICATION

SENSOR

Silicon photodiode
ER302 unfiltered - ER301 filtered

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

2 x 250W HPS 60 μ PFC

MAXIMUM RESISTIVE LOAD

7 Amps

SWITCHING DELAY

15 - 30 Seconds

SWITCHING CYCLES

6,000

POWER CONSUMPTION

Less than 0.5W

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



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