



*Smart*CELL™



A TECHNOLOGICAL BREAKTHROUGH THAT'S SETTING
NEW STANDARDS OF ENERGY CONSERVATION

Zodion **Smart**CELL™

GREATER EFFICIENCY, GREATER COST SAVINGS,
REDUCED ENERGY CONSUMPTION

Pioneering Zodion photocell technology delivers a real difference, keeping streets and roads well lit whilst saving both money and precious resources through ultra-precise switching



Today, reducing energy consumption isn't so much a desirable option as an environmental necessity - and with the Zodion **Smart**CELL™, advanced functionality ensures not only maximum conservation but also that streets are well lit and safe for everybody using them.

Zodion **Smart**CELL™ achieves its exceptional efficiency and cost savings by always providing a power factor greater than 0.9.

Demonstrating outstanding performance week in and week out, **Smart**CELL™ reacts with great sensitivity to any light changes. With a power consumption of less than one watt and a typical efficiency of 99%, it switches on just before the minimum light level is reached at dusk (to allow for warm up) and off as soon as there is sufficient daylight next day.

Acting as a photocell, it switches on the specified light level and operates until dawn, dynamically optimising the power factor of the lantern it controls. The optimisation compensates for lamp ageing, supply voltage variation and PF capacitor ageing.

With **Smart**CELL™ you can be confident that your lighting unit is operating at an optimum power factor whatever its age.

Applications

SmartCELL™ is ideal for street lights and other lighting applications as it can be used in place of a standard NEMA photocell.

PECU

As it incorporates Zodion's revolutionary SS6 one-part photocell, **Smart**CELL™ also operates as a photo electric control unit. With filtered diode sensor, the SS6 utilises advanced diode technology to provide a consistent and extremely accurate switch performance.

With precision switching perhaps the single biggest factor influencing energy consumption over long periods of time, **Smart**CELL™ gives Local Authorities and Highway Agencies an unrivalled solution to the twin demands of conservation and safety.

ONE OF THE UK'S FOREMOST TECHNOLOGY SPECIALISTS

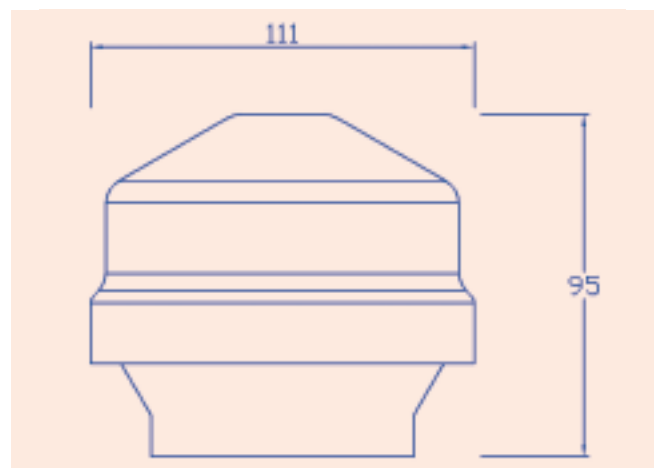
HOW SMART ARE YOUR STREET LIGHTS?

Zodion **SmartCELL™** results in street lights that almost think for themselves. When light fails they give pedestrians and motorists maximum visibility - and when the daylight is good they save maximum energy.

With over thirty years of experience, Zodion enjoys a worldwide reputation for the manufacture and supply of advanced electronic photo control units and lamp ballasts. These are used extensively by local authorities, utility companies, original equipment manufacturers and contractors. We also provide lighting controls for highway signage applications.

TECHNICAL SUMMARY

Sensor:	Filtered Photodiode
Voltage:	198 to 264VAC
Switch on level:	70Lux
Switching diff:	1:0.5 Negative
Max Full PF Correction:	150W INDUCTIVE
Typical load (Photocell):	400W HPS
Operating temperature:	-20°C to +75°C
Max switching capacity:	2A
Switching delay:	10 - 15 Secs
Enclosure material:	Polycarbonate
Power consumption:	< .5W
Approvals:	EN 50081 - I EMISSIONS EN 50082 - I IMMUNITY
IP rating:	IP 66 Correctly Fitted
Power Factor Correction:	> 0.9





LUMO LIGHTING

A sister company of Zodion, Lumo Lighting is a leading supplier of interior low voltage lights that combine innovative technology with stylish design and outstanding quality.

Particularly suited for caravans, boats, motor homes, recreational, commercial and specialist vehicles, the Lumo range is available with energy-saving fluorescent, halogen and incandescent light sources for 12 and 24 volt applications.



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