

ZCELL^{LED}



Overview

- Ultra low power NEMA photocell optimised for LED street lanterns
- New, dedicated UMSUG code to reflect <100mW power consumption - 94 0000 0001 100
- Long life design >15 year continuous operation



Features

- 'Fit and forget' design - zero maintenance
- Long life >15 year operation
- Suitable for loads up to 400W
- Reflective opaque cone minimises solar gain inside photocell
- Ingress Protection - IP 67
- Low energy consumption <100mW, (220V - 240V)
- Low illuminance level switching to reflect instantaneous operation of LED lanterns
- Unity switching level - 20:20 lux as standard (other ratios available on request)
- Near unity power factor circuit design (>0.9)
- Compatible with 3pin NEMA sockets from ALL manufacturers - 5/7 Pin NEMA compatible versions available on request
- Electromagnetic relay switching - suitable for high inrush currents and low energy dissipation
- Filtered photodiode for CIE photopic performance
- Conical design to aid self-cleaning and deter perching birds
- UV stable materials
- Intrinsically surge resistant circuit (>2kV)
- Through-hole plated PCB for increased mechanical durability
- Long life automotive grade components
- Embossed terminal markings
- LED status indicator - one flash per 10 seconds to indicate product is running correctly. LED off continuously indicates product fault
- Microprocessor controlled
- No minimum load



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Construction

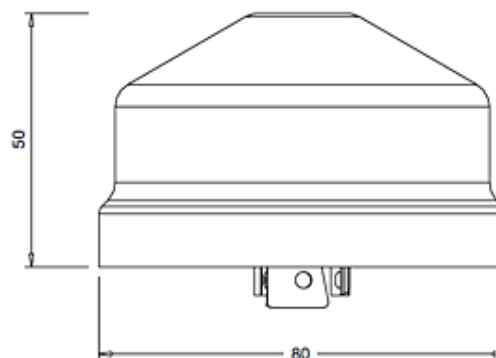
- Base and Cone – UV stable, UL94 V-0 flame retardant, impact resistant polycarbonate
- Terminals – Brass
- PCB – High grade reinforced FR4
- NEMA fixing
- High impact resilient polycarbonate cone and base
- Riveted and epoxy bonded construction

Weights

- 0.082Kg

Dimensions

- Height = 50mm
- Dia = 80mm



Performance

Product	Description
Operational Voltage Range	198V – 264V
Operational Frequency Range	50Hz
Power Factor	>0.9
Power Consumption	< 100mW
UMSUG Code	94 0000 0001 100
Operational Temperature Range	-20°C to +80 °C
Switching Mechanism	Electromagnetic Relay
Switching level	On:20 Lux / Off:20 Lux
Switching differential	1:1
Switching Delay	10 seconds (approximately)
Maximum load LED / discharge	400W
Sensor Type	Filtered photodiode
Sensor Drift	Negligible
Surge protection	Yes, >2kV
IP Classification	IP67
Compliance Standards	BSEN55015, BSEN61000, BSEN61547, BSEN61347, BSEN60950

Recommended settings

- None required – factory set, use straight from the box

Order Code	Description
F6250	ZCellLED 20:20

