

# ZCELL<sup>LED</sup> Part Night



## Overview

- Ultra low power NEMA photocell designed and optimised for LED Lanterns
- Energy saving through part night programmable operation
- Long life design

## Features

- Standard NEMA fitting
  - Fit and forget design – zero maintenance
  - Part night operation – preprogrammed to customer specification
  - DLS option available for accurate switching in both GMT and BST
  - Low luminance level switching to reflect zero warm time of LEDs
  - Unity switching – 20:20 Lux as standard (other options available on request)
  - LED status indicator
  - Electromagnetic relay switching suitable for high inrush currents
  - Filtered photo diode for CIE photopic performance
  - Microprocessor controlled
  - Superior high grade components
  - Through hole plated PCB for increased mechanical durability
  - Intrinsically surge resistant circuit (>2kV)
- Low energy consumption <100mW (220 – 240V)
  - Near unity power factor circuit design (>0.9)
  - Suitable for loads up to 400W
  - Embossed terminal markings
  - Long life design
  - High impact, UV stable polycarbonate casing
  - Rated at IP 67



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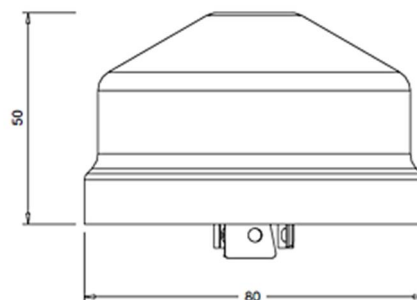


## Construction

- Base and Cone – UV stable, UL94 V-0 flame retardant impact resistant polycarbonate
- Terminals – brass
- PCB – high grade reinforced FR4
- NEMA Fixing
- Riveted and epoxy bonded construction

## Dimensions

- Height = 50mm
- Dia = 80mm



## Performance

Product	Description
Operational Voltage Range	198V – 264V
Operational Frequency Range	50Hz
Power Factor	>0.9
Power Consumption	< 100mW
Operational Temperature Range	-20°C to +80 °C
Surge Protection	2kV
Switching Mechanism	Electromagnetic relay
Switching level	Available in 20, 35, 55, 70 Lux versions
Switching differential	Available in 1:1 or 1:0.5 ratios
Switching Delay	10 seconds (approximately)
Maximum load LED / discharge	400W
Sensor Type	Filtered photodiode
Sensor Drift	Negligible
IP Classification	IP67
Compliance Standards (applicable clauses)	EN61000, EN55015, EN61547, EN61347, EN60950

## Weights

- 82g

## Recommended settings

Order Code	Description
F6251-xxxx-xx (x= switch timings)	ZCELL <sup>LED</sup> Part Night xx:xx – xx::xx 20 Lux 1:1 (x= switch timing)

- None – factory preprogramed

