

# Westire 9900 Digi Drive Cell

Complete streetlight control within a photocell, the world's first 48V DC photocell with a built-in light engine driver, delivers sustainable and efficient outdoor lighting by combining sensing and control in a single compact unit.



**Delivers up to 10% higher lumen output per watt than mains-operated LED luminaires**

**Control of solar and hybrid DC street and area lighting**

**Converts outdoor lighting fixtures to operate on 12–48V DC**

## Features

- **LED Driver Integration** – Combines the LED driver within the photocell for a compact solution.
- **Maintenance-Free Design** – No need to open the luminaire canopy for driver maintenance or upgrades.
- **Wide Voltage Range** – Operates with 12–48V DC for flexible system compatibility.
- **Customisable Output** – Available in different light engine current ranges.
- **Quick Installation** – Twist & lock into the Zhaga socket to install both photocell and light engine driver in one step.
- **Simplified Servicing** – Streamlines maintenance of the LED luminaire.
- **Extended Lifespan** – LED driver cooled by ambient air convection for longer driver life.

## Key Benefits

- **Short Circuit Protection** – Safeguards against electrical faults.
- **Constant Current Control** – Ensures stable LED performance.
- **EMI Filtering** – Reduces interference for reliable operation.
- **Sealed Protection** – Both LED driver and photocell rated to IP68.
- **Energy-Saving Control** – Supports part-night switch off.
- **Flexible Switching** – Offers various light level photocell switching options.
- **Advanced Scheduling** – Astro clock part-night switching available as an option.
- **Proven Compatibility** – Designed into TE's LumaWise Endurance 80mm base and dome.

General		Environment & Compliance	
Dimensions:	64mm x 78 mm 2.51" x 3.07"	Operating Temperature:	-20°C to +80°C -4°F to +176°F
Receptacle Compatibility:	Zhaga Book 18	Designed to Meet:	Manufactured to: IS EN ISO 9001:2015, RoHS Designed to: All relevant standards
Luminaire Fixing:	Zhaga Book 18 socket	IP Rating:	IP68
Photocell Guarantee:	3 years		
Switching & Dimming		Power	
Switch "On" Light Level 1:	0, 15, 35, 55, 70, and 100 lux as standard (other levels available on request)	Supply Voltage:	12 V DC to 48 V DC 50/60 Hz
Switching Ratios:	1:0.5, 1:1, or 1:1.5 (other ratios available on request)	Light Engine Voltage:	12 V DC to 48 V DC
Switching Time Delay:	25 seconds	Light Engine Current Ranges Available:	350 mA, 700 mA, 1050 mA
Switching Options:	Dusk-to-Dawn (standard) Part-Night & Dimming (optional)	Ripple Noise:	350 mA – 300 mVp-p 700 mA – 500 mVp-p 1050 mA – 500 mVp-p
Ambient Light Sensor:	Filtered ambient light photodiode	Efficiency at Full Load:	95 %

## Wiring of the Westire Digi Drive Cell

