

Westire Mini VFC 12V-48V DC Photocell

Volt Free Switching Photocells

Reliable dusk to dawn and part-night control, the Westire Mini VFC delivers safe, volt-free switching for low-power DC LED luminaires and other connected devices.



Features & Benefits

- **Electrical Isolation** – Provides safe operation by not carrying voltage to the controlled device
- **Safe Interfacing** – Enables secure connection between different voltage systems
- **Short Circuit Protection** – Reduces the risk of electrical faults
- **Simplified Testing** – Easier to test and troubleshoot without high mains voltage risks
- **Energy Efficiency** – Designed for low power consumption
- **High Load Capacity** – Rated for a maximum load of 5 amps
- **Reliable Electronics** – Advanced circuitry ensures long-term performance
- **Protective Integration** – Supports triggering of protective systems and alarms
- **Moisture Protection** – Fully sealed to IP68 to overcome luminaire condensation issues
- **Third-Party Compatibility** – Safely integrates with external equipment
- **Maintenance Friendly** – Simplifies lighting maintenance and troubleshooting
- **System Isolation** – Protects critical systems from faults
- **Durable Housing** – UV-stabilized polycarbonate construction
- **Standards Compliance** – Complies with safety standards and helps third-party equipment in meeting BS EN 54 fire detection or IEC 60204 machine safety standards
- **ROHS Compliant** – Built in accordance with environmental safety regulations
- **Shock Protection** – Reduces risk of electric shock
- **Safety Assurance** – Supports compliance with safety systems
- **Low Electrical Noise** – Minimizes interference in connected systems

A Westire Fit & Forget® Photocell

General		Environmental & Standards	
Dimensions	Overall Enclosure: 55 mm (L) × 33 mm (D) × 48 mm (H) 2.16" (L) × 1.3" (D) × 1.88" (H)	Operating Temperature	-20° C to +80° C -4° F to +170° F
	Sensor Window: Ø12 mm × 18 mm (M20) Ø0.47" × 0.70" (M20)	IP Rating	IP68 (100% encapsulated)
		Standards	Manufactured to: IS EN ISO 9001:2015 Designed to: EN 55015, EN 61547, EN 61000 3-3, RoHS, ANSI C136.10, BS5972
Warranty	8 years		
Power		Switching & Dimming	
Mains supply:	12V to 48V DC	Light Level Switching:	Standard 20 lux On / 20 lux Off (other settings available on request)
Max Current Load:	5 A	Switching Ratios:	1:1 (standard); other ratios available on request
Power Consumption:	12 V – 0.94 W	Time Delay:	25 seconds (standard); other timings available on request
	24 V – 0.11 W	Switching Options:	Part-night & Dusk to Dawn
	36 V – 0.13 W		
	48 V – 0.16 W		
		Light Sensor Silicon:	Colour-corrected

Accuracy

The Westire Mini VFC 12V–48V DC photocell utilises Westire’s Eye Response Filtered Silicon Light Sensor and microprocessor control. This combination ensures precise lighting control, maximises energy savings, and delivers reliable operation for independent low-voltage outdoor solar lighting installations.

Innovative

Engineered in the EU with a 15-year design life and manufactured in-house using only high-quality, name-brand components, the MINI VFC 12V-48V photocell is built for long service life and unparalleled quality and reliability.

Low Voltage Switching Applications

- Pedestrian crossing lighting
- Tunnel lighting
- Mine lighting
- Gas and oil storage facility lighting
- Gas and oil pumping station lighting
- Landscape lighting
- Pathway or driveway lighting
- Security lighting
- Low voltage stairwell lighting
- Signage and other types of illumination

Volt-Free Contacts – Ideal for safe integration with third-party equipment