

# SELC External CMS Module

## *Secure, Proven, Two-Way Lighting Control For Any Deployment*



The **SELC External CMS** luminaire module with embedded Silver Spring communications provides reliable, secure, two-way control and monitoring for outdoor lights. Control and visibility allow for longer-life luminaires, rapid repair, accurate energy monitoring and operations reporting. Used for adding control to existing lights or as part of an LED renovation project, the Silver Spring Connected technology has proven resilience and manageability across millions of network endpoints.

SELC redefined street lighting expectations in 1982 with the industry's first long-life photocell, some of which are still operational over 30 years later. SELC External CMS Modules employ the patented SELC Relay Assisted Triac (RAT) switching technique, to reliably switch reactive lighting loads year after year.



**GUARANTEED FOR 5\* YEARS**

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## Key benefits of the **External CMS Module**

- Proven SELC quality and reliability with over 30 years of lighting control experience
- Proven Silver Spring networking technology - Over 17 million connected devices
- Up to 65 % energy savings when deployed in conjunction with LED lights
- Up to 40 % operational savings through control and monitoring
- Robust multilayer security with end-to-end encryption and full PKI (X.509) infrastructure
- Redundant, auto-healing, auto-configuring network using open standards such as IPv6 and IEEE 802.15.4g
- Over-the-air configuration and firmware upgrades
- Economic scalability from small pilots to metropolitan or country-wide deployments
- Energy metrology at up to 0.5 %<sup>1</sup> accuracy, with per day, per hour, or per minute records and robust utility billing integration
- Infrared Meter Calibration Interface



[www.selclighting.com](http://www.selclighting.com)

 **SELC**  
Power Behind Light

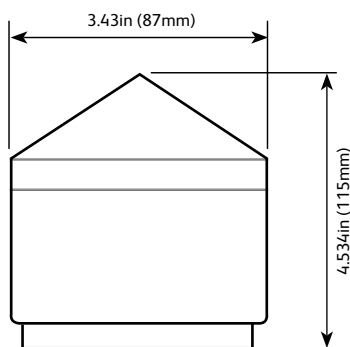
# SELC External CMS Module

The **SELC external and internal modules** with integrated Silver Spring communications together with the advanced Streetlight.Vision CMS front end software provide the best-in-breed solution for efficient luminaire operation. The robust network capabilities and use of open standards such as IPv6 allow the network to support additional smart city applications such as traffic-light control, parking automation and other networked sensors for enhanced living.

The Silver Spring solution includes multi-layer security policy enforcement and monitoring with end-to-end encryption (AES-128/256) and access control to ensure protection of critical infrastructure and data. Deployment options include full product licensing or CMS as a service.

## External CMS Module Versions

	Diagnostic Alerts	On/Off Control	Energy Metrology	Dimming DALI or 0-10VDC
7/5 Pin NEMA Twist-Lock (proposed C136.41)	✓	✓	✓	✓



## Technical Specifications Metering

Accuracy	Standard : 1 % Watt Energy, 2 % VRMS IRMS Improved accuracy on request.
Metering Range	90 - 320VAC , 8A RMS (48 – 62)Hz
Turn ON Light Level	1.5fc (Other levels available on request)
Housing Material	UV Stabilized Polycarbonate
Enclosure Sealing	IP65
Dimensions	H 4.53in (115mm) D 3.43in (87mm) Weight: 250g
Switch Ratio ( OFF:ON ) Ratios	1.5:1 (Also available - 1:1, 2:1, 0.5:1)
Guarantee	5 years* Extended Warranty Available
Rated Load	1800VA 3 x 400W
Maximum Load Current	10 Amps
Operating Temperature Range	-40°C to +70°C (-40°F to +158°F)
Circuit Power Consumption	<2Watts Avg Power @120 VAC
Manufacturing Standard	EN ISO 9001:2008
Photo Control designed to satisfy the following standards	Applicable parts of BS5972 EMC EN55015, EN61547 EN61000-3-2,EN61000-3-3 UL773 ,CSA C22.2
Operating Voltage	105 – 305VAC (50/60Hz)
Options for controlling LED driver	DALI or 0-10VDC available
Silver Spring Networking Specification	Powerful 1-watt radio, Frequency-Hopping Spread Spectrum up to 300kb/s mesh networking Automatic data routing with self-configuration, auto-healing & redundant uplinks IPv6 transport Full application & link-layer security with full PKI, AES-128 and -256, and embedded firewall
MOV Protection	420 J, testing exceeds 10 surges at 10,000A



\*Guarantee subject to SELC Terms & Conditions  
All specifications subject to change without notice

<sup>1</sup> Improved accuracy available on special order.  
Doc No. SELC External CMS Module Rev 4

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