



# SELC 5/7-Pin External Networked Lighting Controller

Secure, proven, two-way lighting control for any deployment

The SELC 5/7-Pin External Networked Lighting Controller (NLC) is embedded with Itron communications and provides reliable, secure, two-way control and monitoring for outdoor street and area lighting. LED Luminaire life can easily be extended with the dimming control feature and in turn allow users to improve lumen output over time. These NLC's employ the patented SELC Relay Assisted Triac (RAT) switching technique, to reliably switch reactive lighting loads year after year. Used in conjunction with Itron's Industrial IoT (IIoT) network, customers can now easily add control to existing or upgraded lights, gaining access to a proven, resilient and scalable solution and application ecosystem across millions of network endpoints.

SELC NLCs are integrated with Itron communications and leverage Streetlight. Vision (SLV) Central Management System (CMS) front end software, together providing the best-in-class 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.

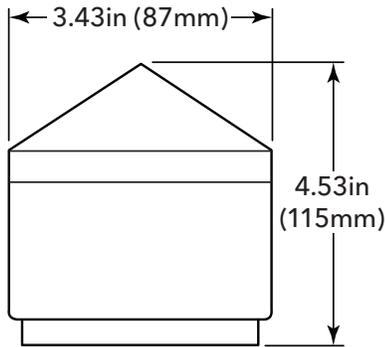
The Itron Solution includes multi-layer security policy enforcement and monitoring with end-to-end encryption (AES-128/256)

and access control to ensure protection of critical infrastructure and data. Deployment options include full product licensing or CMS as a service.

#### Key Benefits of the External NLC:

- » Proven quality and reliability with over 30 years of lighting control experience
- » Proven Itron networking technology— Over 67 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 multi-layer 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 up to 0.5% accuracy, with per day, per hour, or per minute records and robust utility billing integration
- » Infrared Meter Calibration Interface
- » Compatible when plugged into NEMA 5 & 7-pin sockets

## SELC 5/7-PIN EXTERNAL NLC. SECURE, PROVEN, TWO-WAY LIGHTING CONTROL



### Technical Specifications

Metering Accuracy	0.5% or 1% Energy Accuracy available
Metering Range	105 – 305VAC, 10A RMS Full Accuracy to ANSI C12.20
Turn ON Light Level	16 or 35 Lux (1.5 or 3.25 fc), other levels available on request. Can also be set by schedule.
Housing Material	UV Stabilized Polycarbonate
Enclosure Sealing	IP66 / IP67 available as option.
Dimensions	H 115mm x D 87mm; Weight 267g
Switch Ratio (OFF:ON)	Typically 1.5:1; however, configurable to your requirements.
Warranty	10 years
Rated Load	1000W / 1800 VA
Maximum Load Current	10 Amps standard
Operating Temperature Range	-40°C to +70° C (-40°F to +158°F)
Circuit Power Consumption	<2Watts Average Power @120 VAC
Manufacturing Standard	EN ISO 9001:2008
Photo Control designed to satisfy the following standards	BS5972, ANSI C136.10, ANSI C136.41, UL773/CSA C22.2, EMC EN55015, EN61547 EN61000-3-2, EN61000-3-3, EN61347
Operating Voltage	105 – 305VAC (50/60Hz)
Compliance	RoHS, FCC, CE
Options for controlling LED driver for dimming	DALI, 0-10V, Universal Auto-Detect
Itron 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	420J, 20kV/10kA; Exceeds Extreme Surge requirements of ANSI C136.10



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