Wireless Lighting Controller
Trilliant® SLC-3100-RPMA

SLC-3100

The SLC-3100 is an intelligent wireless lighting controller with exceptional fault tolerance and a multitude of features. The SLC-3100 provides intelligent ON/OFF switching, dimming control, optional GPS, highly accurate power metering, analog and digital sensor inputs, and constant status and health monitoring of your lighting fixtures.

Key Features

Photocell in Every Controller

The photocell functionality operates immediately upon installation without minimal dependency on the network.

GPS in Every Controller

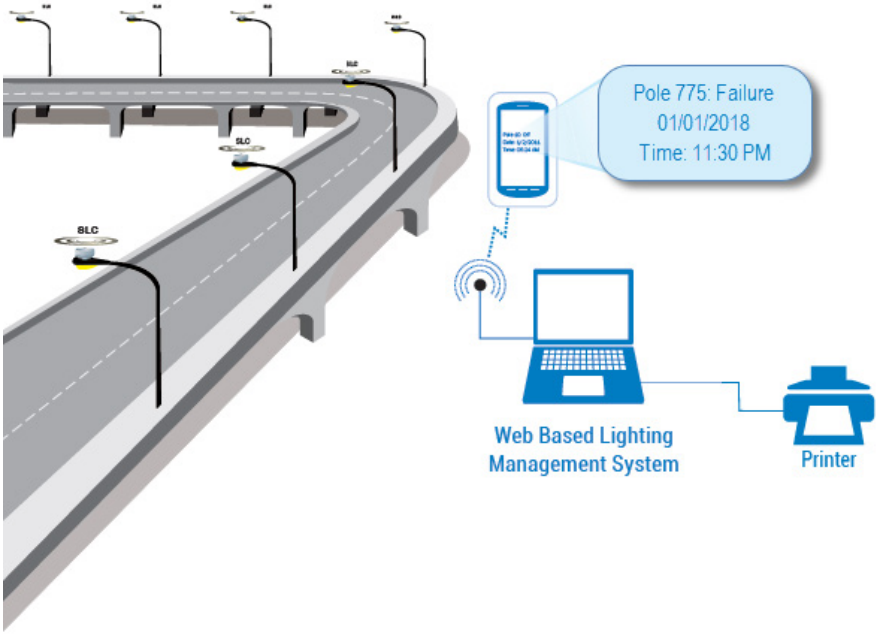
The GPS capabilities reduce install times and eliminate future mapping issues. GPS coordinates for each SLC are sent automatically to a Central Management System for overlay on a Google Maps interface. Trilliant SLCs can be ordered with an optional GPS radio. Without GPS, installers have the option to record the pole ID, SLC ID and its Latitude/Longitude location to map them correctly, by using a mobile app available for Apple iOS and Android™.

Extended Surge Protection

CATB surge protection is standard, while CATC surge protection is available as an option.

Full ANSI C136.41 7-pin Dimming Receptacle Support

The SLCs work with any lamp type or manufacturer with full support for all 7 pins on the ANSI C136.41 dimming receptacle for true plug and play installation. Additional controllers (optional) support the addition of digital or analog sensors, such as motion, vehicle counts or environmental sensors through pins 6 and 7.



4.53 in. W x 2.68 in. H
115 mm W x 67.98 mm H

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Revenue Grade Energy Metering

SLCs monitor current, voltage, frequency, power factor, kW and kWh, and offer metering accuracy as high as 0.5% (optional) for accurate consumption data and billing.

Remote Control and Scheduling

SLCs support multiple lamp control modes such as user configurable ON/OFF/DIM schedules programmed on a daily / monthly / special events basis, local ad-hoc control, photocell and astro-clock scheduling, and mixed mode scheduling incorporating sensor inputs.

Flexible Dimming Control

SLCs support dimming through 0-10 VDC, PWM or DALI interfaces.

Fault Monitoring

SLCs provide extensive fault monitoring to report on day burners, burnouts, lamp cycling, ballast failures, over/under voltage, abnormal power consumption, low power factors, communication failures and more. All faults are sent to a Central Management System for alarm routing, visualization and fault correction. Alerts can be sent directly to relevant users via emails immediately when they occur. Alerts are time stamped and contain key parameters associated with the fault/alarm.

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SLC-3100-SM TECHNICAL SPECIFICATIONS

Controller	Powerful 32-bit microcontroller	
Real Time Clock	Battery-backed RTC	
Power Metering	Parameters measured: voltage, current, power factor, frequency, kW and kWh	
Rate Load	1560VA 960 W	
Power Supply	Universal AC input 85 V to 264 V, 50/60 Hz (305 and 480 V optional)	
Radio Communication	**RPMA®: Random Phase Multiple Access**	
	Radio: RPMA 2.4 GHz DSSS	
	Load: up to 25,000 streetlights per RPMA AP	
	Receiver Sensitivity: -133 dBm	
	Outdoor range: up to 12 miles	
	Data Protection: 128-bit AES encrypt	
	Link Budget: 172 db	
	Deployment: Non-line of sight capable	
	Part Number: SLC-3100-T-TRL	
GPS Module Specification (Optional)	Receiver Type: 22 Tracking/66 Acquisition Channel GPS Receiver GPS L1, C/A Code	
	Max. Update rate: 10 Hz	
	Sensitivity:	Tracking: -165 dBm
		Reacquisition: -160 dBm
		Cold starts: -147 dBm
	Time-To-First-Fix:	Cold starts: 31s (typical)
		Warm starts: 30s
		Hot starts: <1s
		EPO Assist: 13s (CTTFF)
	Accuracy:	Automatic Position3: 2.5 m CEP
		Speed: 0.1 m/s
Dimming Interface	Control Voltage: 0-10 V with Short Circuit protection	Maximum Current: 10 mA
	or	
	PWM Dimming: 10 V p-p, 400 Hz	Maximum Current: 10 mA (Sink)
Optional Sensor Inputs	Provision of one Digital input and one Analog input that can be used for motion-based lighting controls, adaptive lighting or advanced lighting controls	
Surge Protection	Standard: 445 Joule CATB (6 kV/3 kA), Optional: 700 Joule CATC (20 kV/10 kA)	
Operating Conditions	-40C to +75C / -22F to +158F 20% to 90% Rh non-condensing; IP66	
Central ManagementSystem	Web-based software allows remote configuration, monitoring, control, and reporting	

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