iSLC-3100-7P

CIMCON's Plug & Play Wireless Lighting Controller (iSLC) with Remote Monitoring, Dimming, GPS, Metering and Sensor Input Capabilities

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

CIMCON's iSLC-3100-7P is an intelligent wireless lighting controller with exceptional fault tolerance and a multitude of features. Each iSLC-3100-7P provides intelligent ON/OFF switching, dimming control, GPS, highly accurate power metering, analog and digital sensor inputs and constant status and health monitoring of your lighting fixtures.

Key Features of the iSLC-3100-7P

A Photocell in Every Controller
CIMCON's iSLCs operate immediately upon installation without dependency on the network.

A GPS in Every Controller
CIMCON's GPS capabilities reduce install times and eliminate future mapping issues. GPS coordinates for each iSLC are sent automatically to CIMCON's cloud-based Central Management System for overlay on a Google Maps interface. Without GPS, installers must manually record the pole ID, iSLC ID and its Latitude/Longitude location to map them correctly.

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
CIMCON's iSLCs 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. CIMCON's controllers support the addition of digital or analog sensors, such as motion, vehicle counts or environmental sensors through pins 6 and 7.

Revenue Grade Energy Metering
CIMCON's iSLCs monitor Current, Voltage, Frequency, Power Factor, kW and kWh, and offer metering accuracy as high as .5% for accurate consumption data and billing.

Fault Tolerance
Each CIMCON iSLC is a highly intelligent stand-alone device that utilizes the latest developments in self-organizing, self-healing, wireless technologies. Proper operation and execution of a light's schedule is not dependent on network communications.

Remote Control and Scheduling
CIMCON's iSLCs 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
CIMCON's iSLCs support dimming through 0-10 VDC, PWM or DALI interfaces.

Fault Monitoring
CIMCON's iSLCs 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 CIMCON's cloud-based Central Management System for alarm routing, visualization and fault correction. Alerts can be sent directly to relevant users via emails or text messages (SMS) immediately when they occur. Alerts are time stamped and contain key parameters associated with the fault/alarm.

To learn more about CIMCON Lighting's solutions, please contact us at sales@cimconlighting.com

iSLC-3100-7P

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
Rated Load	1560VA 960 W
Power Supply	Universal AC input 85 V-264 V, 50/60 Hz (305 and 480 V optional)
Radio Communication	2.4 GHz, IEEE 802.15.4 RF Data Rate: 250 kbps — Transmit Power: +20 dBm Receiver Sensitivity: -104 dBm — Network Type: Self-forming mesh network Network Fault Tolerance: Self-healing mesh — Open Field Range: 5000 ft/1.5 km Data Protection: 128-bit AES encrypt Hardware: IEEE 802.15.4-2003 CSMA-CA algorithm
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 — Maximum Current: 10 mA with Short Circuit protection 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	-40°C to +70°C / -22°F to +158°F (-40°C optional), 20% to 90% Rh non-condensing; IP66
Central Management System	Web-based software allows remote configuration, monitoring, control, and reporting

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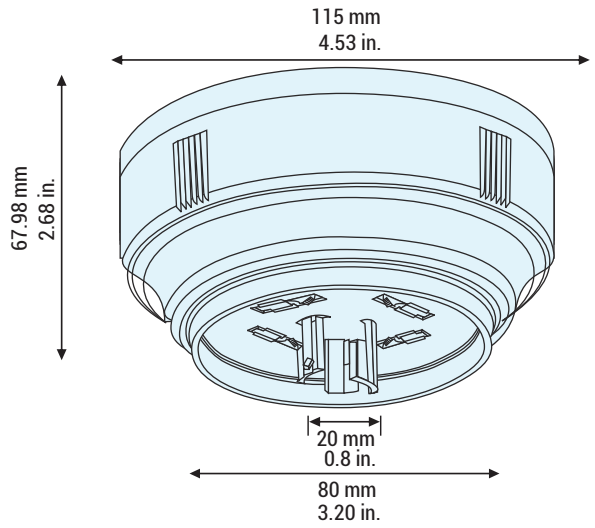
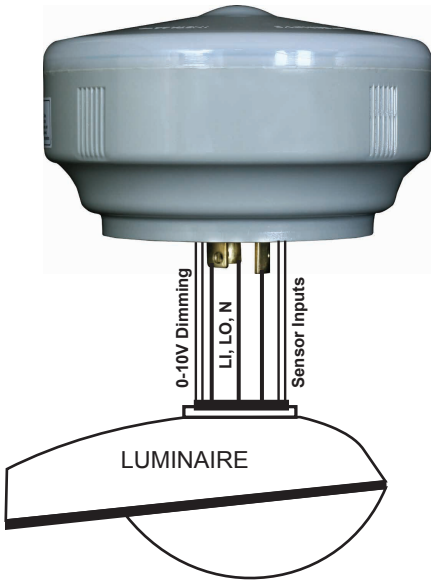
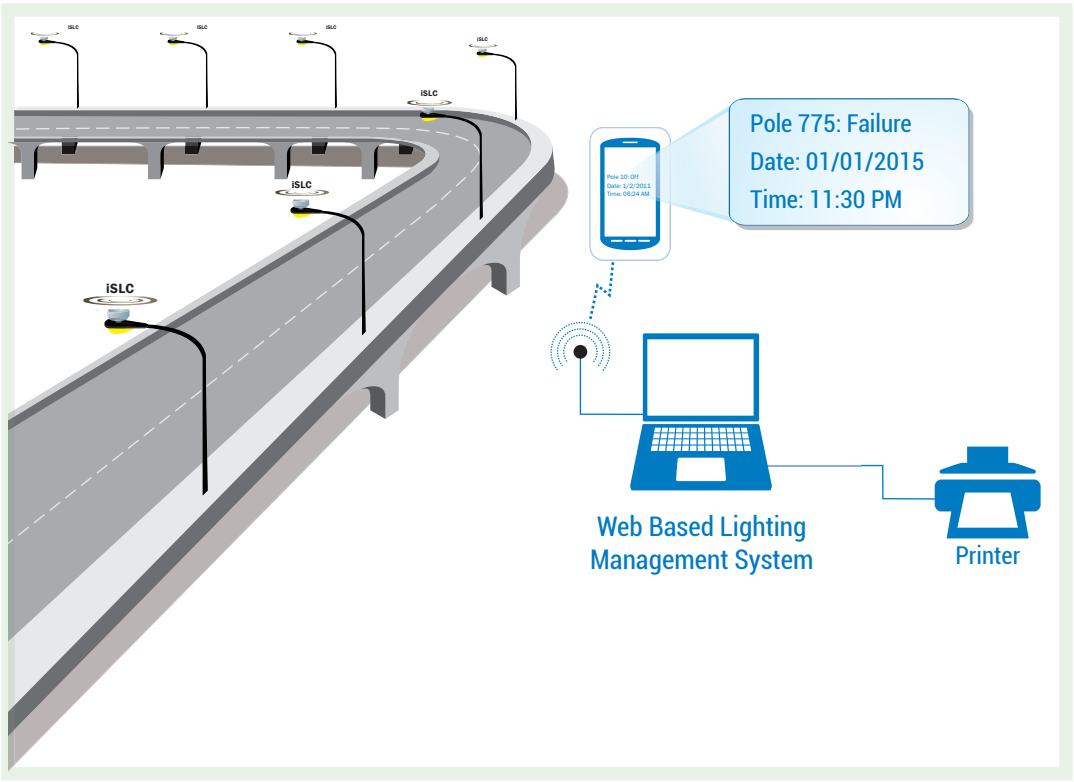
Mechanical Specifications





How It Works



iSLC-3100-7P

Ordering Code

iSLC-3100-7P-240-A-G-IO-CATB-05

ANSI C136.41 7- Pin Interface for Dimming and Sensor Inputs

Maximum Line Voltage
240 - 120/240
277 - 120/240/277

DIMMING INTERFACE
'A' - ANALOG (0-10V)
'P' - PWM
'D' - DALI

GPS
'G' - WITH GPS
' ' - WITHOUT GPS

ADDITIONAL IO
1 DIGITAL INPUT
1 ANALOG INPUT

SURGE PROTECTION
CATB
CATC

ENERGY METERING ACCURACY
'.5' - 0.5%
'2.' - 2%.

Ordering Guide

iSLC-3100-7P _

PRODUCT ID	Maximum Line Voltage	DIMMING INTERFACE	GPS	ADDITIONAL IO	SURGE PROTECTION	ENERGY METERING ACCURACY
NEMA-7-pin SERIES	240 - 120/240 277 - 120/240/277	'A' - ANALOG 'P' - PVM 'D' - DALI	'G' = WITH GPS ' ' = WITHOUT GPS	'IO' - 1 Digital & 1 Analog ' ' - No Inputs	'CATB' - (6kV/3kA) 'CATC' - (20kV/10kA)	'.5' - 0.5% '2.' - 2%

Project Information

Project Name Date

Comments

Prepared By

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