

CSLS Lighting Control System (Commercial Version)



Smart - Reliable - Maintanence Free - Low Voltage - Energy Efficient - Solid State



CSLS Lighting Control System

The IGS CSLS (Centralized Smart Lighting Server) is a fully modular and scalable ultra energy efficient and feature rich solid state lighting system. It is the perfect solution for any structure from a one bedroom home to a 120 story office building.

Major Installation Savings

The first major benefit of the CSLS system is that all of the light fixtures run on low voltage, thus eliminating the need to run expensive MC Cable, conduit and/or any high voltage wiring. The system can be installed using CAT5 and/or 18 and 16 gauge wire in most cases. Additionally, since the system is low voltage, there is no need to hire licensed electricians to do the install; it can be done with lower cost laborers. The cost savings here alone are huge.

Major Flexibility and No Maintanence

The second major benefit of the CSLS system is that all of the switches and sensors are wireless and batteryless, thus again, eliminating the need to install any wiring. Being batteryless, there is no maintenance involved in keeping the system running and no down time due to dead or dying batteries. Additionally, being wireless allows complete flexibility as to where you place your sensors and switches. If you want to control the lights in your office from your desk, you could either have a switch on your desk or use the IGS Internet Gateway to control your lights from your phone, other wireless device or even your computer.

The Bottom Line

With the huge cost savings from installation of the CSLS System you get a feature rich, ultra efficient LED Lighting System installed for less than you would pay for a standard fluorescent or incandescent system. Take into account the savings on energy and maintenance (no bulbs or ballasts to change, ever) and choosing the IGS CSLS system becomes a no-brainer decision.

Ease of Installation and Training

All CSLS Systems are built and programmed at the factory. Our factory technicians will take your lighting plans and build the CSLS system specifically for your facility. The system will be delivered to your site with every component labeled for installation in each and every room and area.

Included with your CSLS System is a dedicated PC with an easy to use IGS CSLS programming interface. IGS will train your maintenance staff to use the interface to make any changes to programming. If you have no maintenance staff or would prefer, IGS can interface with your system remotely and make any changes for you.

Reusable and Re-Installable

Let's say that it is time to move your operation or that a new tenant is moving into your building. Before you do any demolition, keep in mind that IGS's lighting fixtures, switches and sensors are designed to be removed, reinstalled and reused.

Over the life of an IGS Light Fixture, since there is never a need to service - i.e.- get on a ladder, and open up the fixture to change a bulb, ballast or driver - the fixtures will maintain their original out of the box condition, unlike traditional fixtures that get beat up over time due to such maintenance. This keeps the fixtures in pristine condition and suitable to be reused in a new environment.

Here's how it works. Simply remove all of the fixtures, switches and sensors and create a simple inventory of all of the components. You then take the plans for your new space and determine which fixtures and other components will be reused in that new space. An IGS Authorized Technician will then reprogram the system and it's components for the new configuration. Fixtures and components can even be moved from site to site.

Additional Cost and Time Savings

In addition to the installation and maintenance savings, consider these cost and time savings benefits:

- move on.
- and the fixture inserted. All nice and clean with no over spray or uneven surfaces.

Industry Leading Warranty

The CSLS System boasts the longest warranty of any lighting control system on the planet. For commercial applications the system carries a 15-Year Warranty and in residential applications, a 20-Year Warranty.

IGS CSLS

 Since all IGS fixtures are low voltage and plug and play installable directly into your ceiling grid or into a simple hole cut into the drywall or ceiling tiles, there are no steel housings to install prior to hanging sheet rock. Additionally, this means your drywallers don't have to spend any time measuring, cutting or aligning holes to match up with the locations of the housings. The same goes for cutting holes for switches and sensors. They simply hang the drywall and

• The painters do not have to tape off or cover holes for switches or fixtures either. They simply paint and then the switches and senors are affixed to the walls; they go up nice and straight every single time. After the ceiling is textured and painted, the hole is cut, the wire hooked up



Here you can see the basic setup of the CSLS System. This drawing illustrates a typical office setup with the CSLS Light Server mounted near the center of the floor, in this case, 4 Network Modules, one covering each quadrant of the floor and 18/2 Low Voltage Wire connecting and powering all of the light fixtures.









CSLS Wireless Network Modules

CSLS Wireless Network Modules The create a multipally redundant communication The network. create a virtual Network Module interconnect to antenna that encompasses every cubic inch of the building. Since all CSLS sensors and switches are wireless and have a range of about 50 meters, a missed signal or communication request is almost impossible, as any one network module can instantly pickup and send the instruction or data signal to anywhere in the building instantly. At any given time or place within the building there are multiple Network Modules in the range of any other system component. This allows for the controls to be quick and responsive at all times and to always deliver.

This continuous network can span 100 or more floors vertically or millions of square feet horizontally. There are no limits, as the system is fully scalable and modular. At any time the system can be expanded by simply adding more network modules. It is even possible to have one switch be an all on/all off switch for the entire building and it could be placed anywhere in the building. Similarly, any light or any grouping of lights can be controlled from anywhere in the building.







FRONT VIEW





These illustrations show how the CSLS Network Modules create full network coverage throughout the entire building.

Since the CSLS System runs on it's own proprietary frequency and since all signals are encrypted and protected, it will not interfere with any other systems in the building, as it runs completely autonomously.





RONT VIEW

IGS CSLS





Redundant Power Management

When it comes to reliability and ease of service, there is no other lighting control system that can match the CSLS with it's solid state Redundant Power Management (RPM) system with active maintenance reporting.

With LED Lighting, when there is a failure, everyone knows that power driver failure is the primary reason, probably about 99.99% of the time.

In any facility in which mission critical lighting is a must, whether it's a hospital, parking garage or factory, etc., there is not time to shut down operations and bring in a lift so that a power driver can be replaced.

The CSLS (RPM) gives you to a standard CSLS system, we bring the power system down to ground level where it is easily accessible for maintenance. The RPM system not only provides you with redundant back-up power within 2 seconds of fail, it also alerts your maintenance personel when the primary power source has failed and that it is on back-up power, so that they know to replace the primary power source.

Replacing the primary power source is plug -n- play. Simply open the cover on the CSLS head unit, pull out the failed module and pop a new one in it's slot. It is a 2 minute operation that is a heck of a lot cheaper than shutting down your operation for two hours to bring in a lift, not to mention, it's much safer.

If you have a thousand lights in a facility, that's a thousand power drivers that will eventually need replaced via a lift, unless of course, your lighting system is an IGS CSLS system with the RPM option.



Rev up your lighting with the IGS RPM system.

IGS CSLS



Outdoor Canopy and Underground Installations

Outdoor Canopies and Underground Installations pose an entirely different challenge, as you must use high cost waterproof conduit to run your wiring.

With IGS's CSLS system, you can run low voltage 18 or 16 gauge waterproof "sprinkler system" wire without the use of expensive waterproof conduit and high voltage low gauge wire. Add to that IGS's exclusive "Quick Junction" junction boxes and installations are fast and easy and again, can be done with lower cost laborers rather than more expensive licensed electricians.

18 Gauge Low Voltage Waterproof Sprinkler Wire with no Steel Conduit or J-Boxes

Pole Mounted

Wall Mounted CSLS Light Server

18 Guage Low Voltage Waterproof Underground Sprinkler Wire

IGSOCSLS







Pricing, Orderingžand Warranty Information

Every CSLS System is custom designed per the building plans. To get pricing for your project, simply contact IGS and we will begin the process of designing a CSLS System to fit your needs.

> IGS Lighting, Inc. 1200 Main Street, Ste. IIIO Dallas, TX 75202

> > Phone: 512-944-8693

www.IGSLighting.com

info@IGSLighting.com

For information on becoming an IGS Lighting, Inc. Distributor, please send your inquiry to:

distribution@IGSLighting.com

IGS CSLS (Commercial Version) **15-Year Limited Warranty**

The IGS CSLS and all of its modules are warranted to be free from defects in materials and workmanship for fifteen years from the date of delivery.

Within this period, IGS Lighting, Inc. will, at its sole option, repair or replace any components that fail from normal use. Such repairs or replacement will be made at no charge to the customer for parts only; customer shall be responsible for any labor to install the replacement product unless. This warranty does not cover failures due to abuse, misuse, improper handling, acts of nature, negligence, accidental damage, modifications or repairs made by the purchaser or incorrect installation(unless installed by IGS Solar). The products must be used in accordance with the guidelines as stated in each product's manual.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, WHICH MAY VARY FROM STATE TO STATE.

IN NO EVENT SHALL IGS LIGHTING, INC. BE LIABLE FOR ANY INCIDENTAL, SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, WHETHER RESULTING FROM THE USE. MISUSE OR INABILITY TO USE THE PRODUCT OR FROM DEFECTS IN THE PRODUCT.

IGS Lighting, Inc. retains the exclusive right to repair or replace the product or offer a full refund of the purchase price at its sole discretion excluding freight or labor charges. For warranty to be valid, installation of IGS products are to be installed in accordance with IGS product installation instructions. This warranty is effective for products manufactured after January I, 2018.

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