

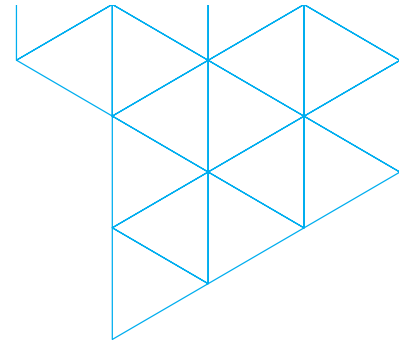
CRISTAL

Low-Voltage Lighting Solutions

Smart
Energy
Solutions

2025 Lavoisier, #135
Quebec, Quebec G1N 4L6
T. 418 681-9590 · 1 800 681-9590
F. 418 681-7393
info@cristalcontrols.com
cristalcontrols.com





An Introduction to Low-Voltage Lighting Control Systems

Every building is unique. That's why Cristal Controls has developed a flexible lighting control system that adapts to any existing network with ease. Reliable, stylish and practical, Cristal Controls low-voltage lighting control systems feature highly advanced functionalities that are also very easy to use.

Lighting control systems have three main objectives :

- ▶ Provide sufficient lighting to ensure optimal comfort for occupants
- ▶ Provide light at the right place by creating zones
- ▶ Provide light at the right time by creating schedules

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Cristal Controls lighting systems **automate** each of these functions by scheduling energy consumption for specific zones within a building.

By incorporating photo-electric cells and motion-detector devices, our lighting control systems can adjust interior lighting depending on exterior lighting levels, or even to the number of people in a room at any given time. Building owners and operators can choose to control consumption by floor, department, individual rooms and even specific lamps or other illuminating devices. You therefore enjoy a reliable control system that truly responds to building-specific needs.

Cristal Controls' lighting control systems provide customers with :

Savings

You'll save time and effort. Our systems simplify business operations and the maintenance of lighting systems.

You'll save money. Your expenses will be reduced by up to 50%. Our products help you reduce your energy consumption and hours of operation for your lighting system. The electrical demands of your building are lower. You can also benefit from lower off-peak rates.

Comfort

With Cristal Controls lighting control systems, the light levels within your building are determined according to your preferences. Your clients, employees, tenants or residents will always appreciate a comfortable amount of light.

Security

When assisted by the Jasper application, Cristal Controls lighting control systems allow you to anticipate the replacement date of illumination devices according to the manufacturer's specifications and take corrective measures before they actually burn out

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Productivity

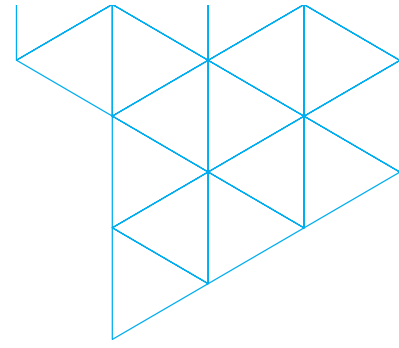
Your employees will benefit from a working environment that is better suited to their needs. Adequate lighting levels have been proven to induce higher levels of job satisfaction and productivity.

Flexibility

The configuration of lighting areas can be determined based on your priorities, as are schedules and any other adjustments you may require.

Integration of lighting control and energy management systems

A lighting control system can be integrated with Cristal Controls load shedding and energy management systems. Cristal Controls' LS-2010 load shedding system controls peak-period demand and guarantees adherence to your energy consumption limitations. This allows you to anticipate and control your energy consumption and also benefit from more advantageous off-peak rates.



Low-Voltage Lighting Control System Product List

Relay Panels

- ▶ CCLP: Lighting relay panels for low-voltage control applications
- ▶ CCLP-CCLS4016: Stand-alone programmable lighting relay panels
- ▶ CCLP-BACNET: Lighting relay panels with BACnet networking option
- ▶ CCLP-LON: Lighting relay panels with LON networking option

Relay Scanners

- ▶ CCLS-4016: Lighting scanner that can be programmed directly on the board or through a network connection to control as many as 16 relays with 4 independent inputs

Relay

- ▶ WR-6161: HID relays used in low-voltage lighting panels

Dimming

- ▶ 0-10 Vdc
- ▶ DALI
- ▶ DMX Architectural & Theatral

Accessories (contact Cristal Controls for complete technical specifications)

- ▶ Low-voltage switches
- ▶ Network switches
- ▶ Occupancy sensor
- ▶ Daylight Sensor
- ▶ Photo-cell (Digital or Analog)
- ▶ Scheduler
- ▶ Jasper Building Control