

Commercial lighting control solutions

Make the most of your energySM

Schneider
Electric

It's time to change the way you think about **lighting control.**



Seamlessly Integrated Lighting Control

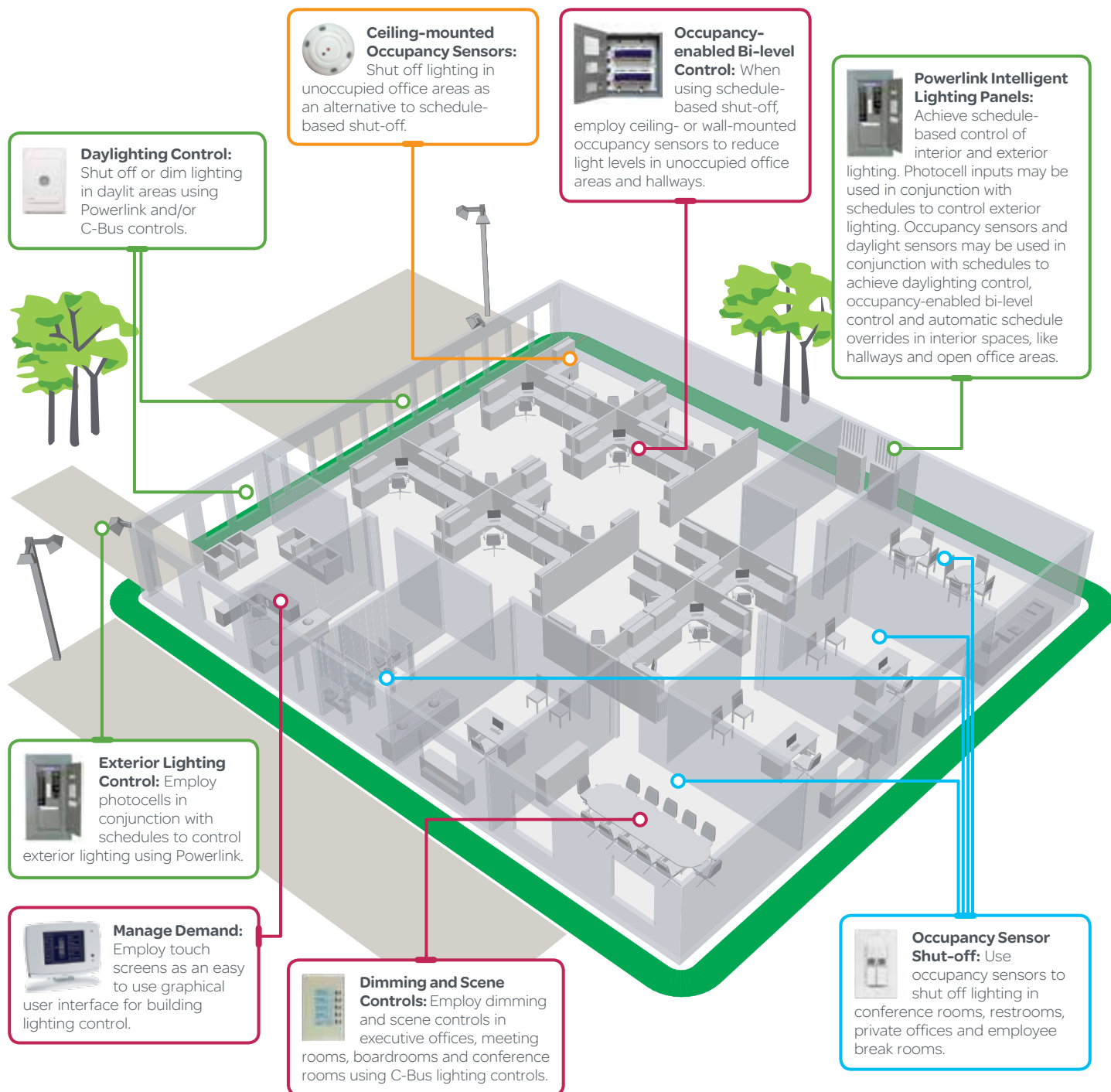
No more hassles dealing with separate specs or coordinating between different vendors. One company that can handle your whole project. One point of contact you know you can always depend on, from beginning to end. One source that can deliver seamlessly integrated lighting control solutions — even entire electrical distribution systems. That source is Schneider Electric.

Comprehensive Lighting Control Offer

C-Bus™ network lighting control, Powerlink® intelligent panelboards and occupancy sensors from Schneider Electric create one of the most comprehensive energy-saving offers in the industry. They combine automated and web-enabled control with occupancy-based solutions and dimming capabilities.

Office Buildings

For most commercial business, reducing the cost of operating their business and maximizing operating efficiency is critical. To achieve maximum efficiency, businesses must reduce waste. Today, businesses must do more with less. Lighting is no exception. There is no more obvious waste of energy than a fully-lit building with no one in it. Lighting unoccupied spaces or buildings is wasteful and expensive. Lighting controls help facility managers and building managers trim the waste, maximize energy and efficiency, and reduce building operating costs.



Wall Switch Occupancy Sensors

- Adaptive technology
- No neutral required
- Audible alert (alarm)
- Five colors to choose from
- Light-level sensor
- Walk-through mode
- Lamp-saver mode (dual-circuit sensors)
- One- and two-circuit models available



Ceiling- and Wall-mounted Occupancy Sensors

- Ultrasonic, PIR and dual-technology models
- Easy-access adjustment panel
- Adjustable time delay and sensitivity
- 360° field of view (ceiling-mounted sensors)
- Isolated relay
- Interchangeable PIR lenses (wall-mounted PIR)



C-Bus™ Network Lighting Control

- Granular control of aisle and area lighting
- Daylighting control (dim or turn lighting off in daylight areas)
- Industry-leading controls (keypads or touchscreens)
- Web-enabled control through SchedulePlus software
- Scalable and flexible solution



Powerlink® Intelligent Lighting Panels

- Desktop access via LCS user interface
- Web-enabled lighting control
- Seamless connectivity with network keypads, sensors, etc.
- BACnet capable
- Easy panelboard retrofit in existing buildings



Applications

Schedule-based Control

Employ schedule-based control of exterior lighting and interior lighting of large or shared spaces, like hallways, open office areas and warehouses.

Occupancy Sensor Controls

When rooms are not in use, employ dual-tech occupancy sensors to shut off lighting. Consider passive infrared (PIR) wall switch occupancy sensors for private offices, restrooms, conference rooms, board rooms, open office areas (bi-level lighting control), break rooms and storage rooms.

Multi-scene and Dimming Controls

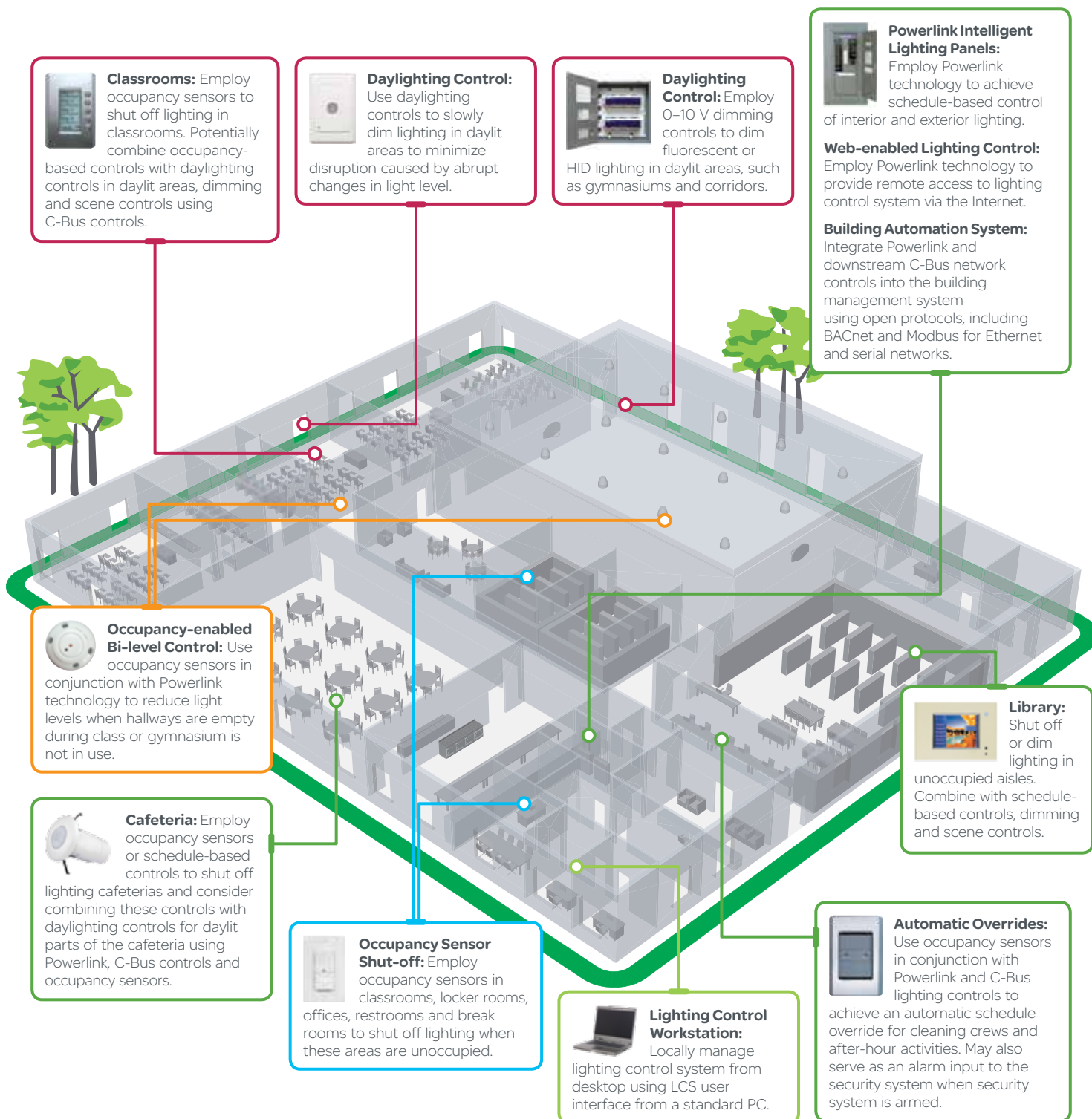
Employ multi-scene control of executive offices, board rooms, meeting rooms and multi-purpose rooms.

Daylighting Controls

Offices typically have an abundance of daylight from windows. More frequently, new buildings are constructed with skylights to let natural light into rooms. To take advantage of natural illumination, reduce electric light levels by switching off lighting circuits, groups of lights or dimming lighting in day-lit areas. Employ C-Bus network lighting controls to create a reliable closed-loop daylighting control system that ramps lighting up or down with the fall and rise of natural light levels with little or no disruption.

K-12 Schools & Universities

Educational buildings are a great opportunity to reduce lighting-related energy waste. Lighting accounts for approximately 25% of electricity consumed in educational buildings, and the opportunities to reduce waste by employing lighting controls are predictable and easily replicated. Web-enabled lighting controls using Powerlink lighting control panelboards may be employed on large school or university campuses or in large school districts to provide centralized maintenance personnel with access to lighting control systems remotely via the internet.



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LCS Software with Powerlink® Lighting Panels

- Manage lighting control from your desktop
- Web-enabled control with remote access
- Fully configure panelboards
- Real-time monitoring system status
- Remote diagnostics, set-up and maintenance



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Applications

Occupancy-enabled Bi-level Control

K-12 school hallways are empty 50 minutes out of every hour. Why not employ ultrasonic occupancy sensors to shed some of that load during class when the halls are normally unoccupied.

- Achievable savings: Up to 40%
- Payback period: Less than three years

Schedule-based Control

Employ schedule-based control of exterior parking and security lighting, and interior hallways, gymnasium, and library. When using occupancy-enabled bi-level lighting in hallways or the library, utilize occupancy sensors as an automatic override to the Powerlink controls for after-hour functions and cleaning crews.

- Achievable savings: 15% or more
- Payback period: Two to three years typically

Occupancy Sensor Shut-off

Classrooms are rarely used all day. When classrooms are not in use, employ dual-tech occupancy sensors to shut off lighting. Consider passive infrared (PIR) wall switch occupancy sensors for administrative offices, and PIR ceiling-mounted occupancy sensors for the cafeteria.

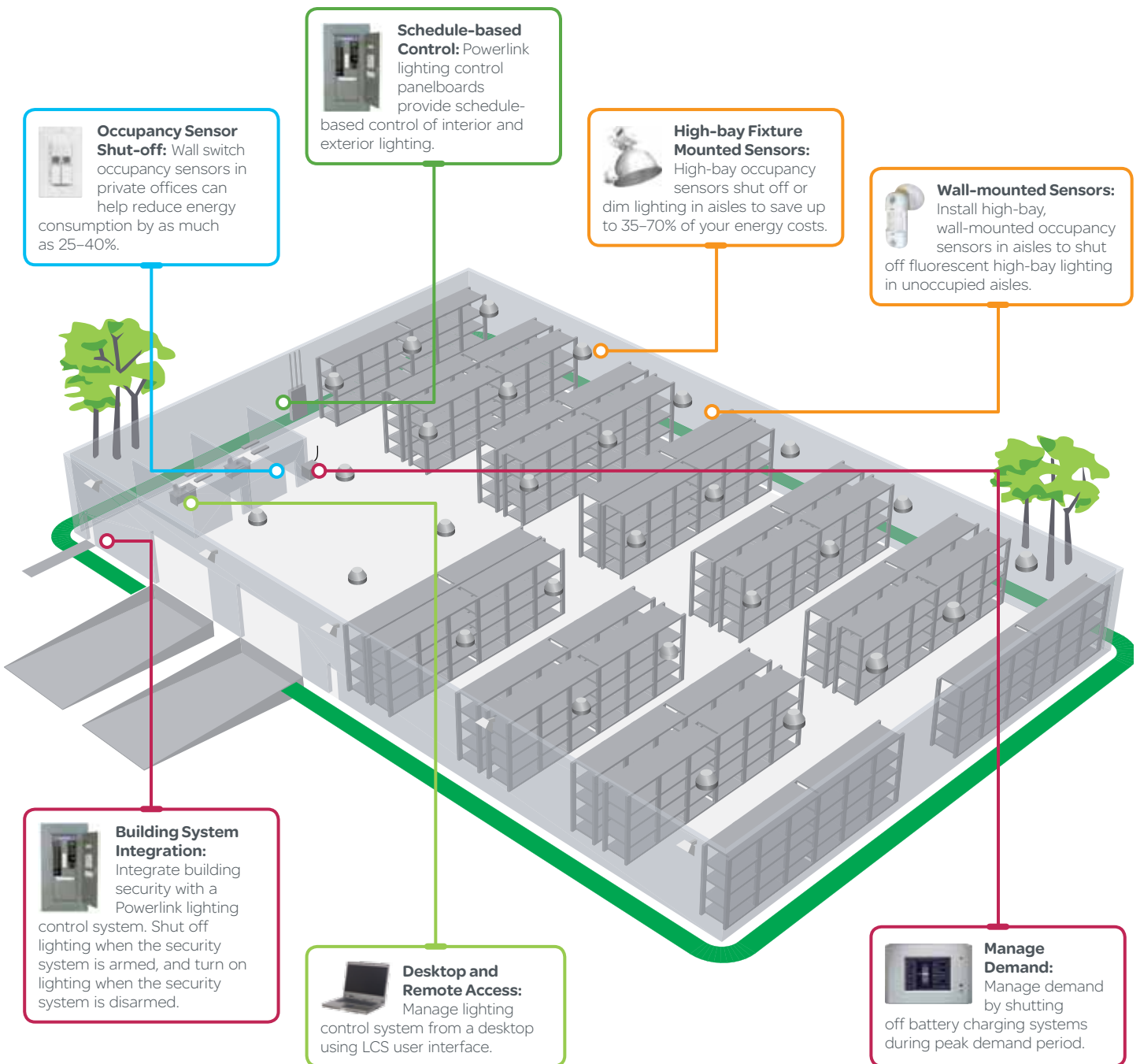
- Achievable savings: Up to 45%
- Payback period: Less than three years

Daylighting Controls

Classrooms typically have an abundance of daylight from windows. More frequently, new school buildings are constructed with skylights to let natural light into the classroom. To take advantage of natural illumination, reduce electric light levels by switching off lighting circuits, groups of lights or dimming lighting in day-lit areas. Employ C-Bus network lighting controls to create a reliable closed-loop daylighting control system that ramps lighting up or down with the fall and rise of natural light levels with little or no disruption.

Warehouses

Lighting accounts for approximately 50% of electricity consumed in warehouses. Properly installed lighting controls reduce, or virtually eliminate, lighting-related energy waste in warehouses, resulting in lower electric utility bills. That savings falls right to the bottom line year after year, and as the cost of electricity increases, the savings increases with it. Why stretch your operating budget to pay electric bills? Lighting controls are a capital investment in your facility that pay back dividends year after year. The average lighting control system in warehouses has less than a two-year payback, resulting in a ten-year return on investment that is four times the initial installed cost.



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- One- and two-circuit models available



High-bay (HID) Occupancy Sensors

- Hi-lo control of high-bay HID lighting
- Reduce power by 50% in unoccupied spaces
- Fully-adjustable range and time delay
- Available with interchangeable aisle and area lenses
- 15 minute warm-up period



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LCS Software

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Applications

Occupancy-enabled Bi-level Control

Perfect for warehouse aisles, employ high-bay HID hi-lo fixture-mounted occupancy sensors to dim HID lighting to 50% power when the controlled area, or aisle, is unoccupied.

- Achievable savings: 30% or more
- Payback period: One to two years

Schedule-based Control

Retrofit existing panelboards with Powerlink lighting control panelboards to execute schedule-based control of high-bay lighting in warehouses and industrial buildings. Compared to manual switching of circuit breakers and depending on maintenance crews to remember to switch off lighting, Powerlink controls do not adversely wear circuit breakers and the switching off of lights can happen when the security system is armed using a simple input from the security system. And Powerlink protects employees from potential arc flash hazards associated with switching circuit breakers manually.

- Achievable savings: 15% or more
- Payback period: One to two years

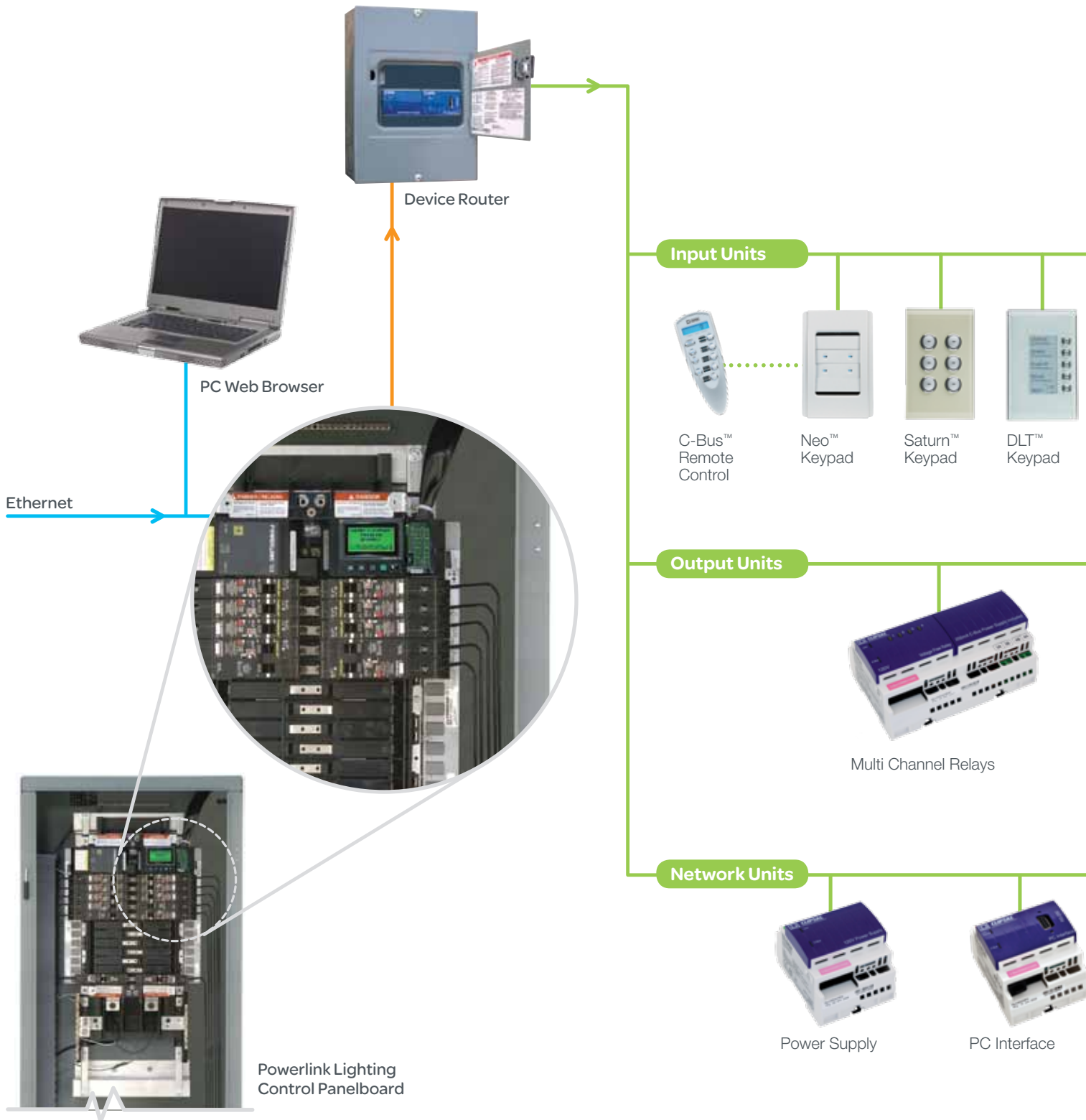
Daylighting Control

Increasingly, warehouses are constructed with skylights to allow natural illumination of interior spaces during the day when most warehouses operate. Employ daylight sensors to shed unnecessary lighting when natural light is available. C-Bus lighting controls may be used to dim fluorescent or HID lighting, or to switch off some lighting when natural light levels reach minimum levels. Powerlink lighting control panelboards may also be used to switch off lighting circuits in reaction to higher natural light levels.

- Green/sustainable
- Renewable energy systems may be eligible for utility rebates, tax incentives or both

One-line Diagram

C-Bus network lighting control, Powerlink® intelligent panelboards and occupancy sensors from Schneider Electric create one of the most comprehensive energy-saving offers in the industry. They combine automated and web-enabled control with occupancy-based solutions and dimming capabilities



Schneider Electric Occupancy Sensors

Occupancy sensors from Schneider Electric are the perfect solution for applications needing simple occupancy-based controls. Low-voltage ceiling- and wall-mounted occupancy sensors can be tied into the C-Bus network using simple dry contact inputs.



Wall Switch



Ceiling Mount



Wall Mount



Fixture Mount



Touch Screen



Sensor
(PIR/IR/Light Level)



Bus Coupler
(Dry Contact Connections)



Auxiliary Input Unit



General Input Unit



Phase Angle Dimmer



Professional
Series Dimmer



0-10 V
Dimming Unit



Changeover Relay Unit



Network Bridge



Ethernet Gateway



DALI Gateway



Pascal Automation
Controller



Telephone
Interface Unit



The Complete Package

Reliable lighting control systems deserve reliable support to match. With Schneider Electric lighting control, you can always count on our Schneider Electric field sales engineers and factory-trained experts for help when you need it — before, during or after installation. Whether that means local support, troubleshooting or on-site commissioning.



To learn more, visit www.schneider-electric.us
or call **1-888-778-2733**.

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