

# Daylighting Control



LIGHTSAVER®  
automatic dimming • ON/OFF switching • exceptional flexibility

 **WattStopper**

 **legrand®**

## LightSaver:

As an abundant, renewable energy source, daylight can be one of the most effective means of saving precious, nonrenewable energy resources – and reducing your energy costs. Harnessing its power to replace electric lighting with automatic daylighting controls provides additional benefits:

- sustainability
- enhanced work environments for increased productivity
- more attractive commercial properties for leasing and tenancy retention

### **Capture energy savings**

According to the US EPA, automatic daylighting controls can boost energy savings by up to 40%

# Putting the Power of Daylight to Work for You



## Educational

- Libraries
- Classrooms
- Gymnasiums
- Cafeterias



## Retail

- Ambient lighting
- Signage
- Perimeter display lighting
- Skylighted areas



## Public Buildings

- Libraries
- Recreational facilities
- Public works



## Commercial

- Open and private offices
- Perimeter spaces
- Conference rooms
- Corridors



# Automatic Dimming Control

## LS-301 Dimming Photosensor

Dimming control has never been easier. A revolutionary stand-alone dimming controller, the LS-301 works with standard 0-10V dimming ballasts to automatically dim lighting based on ambient light levels. With simple installation and setup via handheld remote, the LS-301 offers the most advanced and accurate dimming control available.



### LS-301 Highlights:

- Single zone control up to 50 standard dimming ballasts
- Optional occupant adjustment via handheld remote
- Closed loop control
- Light measurement matches human perception for improved performance
- Sliding setpoint control to prevent over and underdimming



### Applications

- Perimeter spaces that require single control zone
- Spaces needing low cost personal controls
- Space types include private offices and classrooms

# Automatic Dimming Control



## LCD-203 Dimming Control System

### LCD-203 Highlights:

- Up to three zones of control (50 dimming ballasts per zone)
- Individually adjustable parameters for each channel: setpoint, minimum output, maximum output, ramp rate, fade rate, cutoff time delay, load shed limit
- Open loop dimming control
- Menu-driven, push-button programming and automated setup
- LCD display of photocell readings
- System components include LCD-203 control module, BT-203 power pack, LS-290C photocell

For applications where multi-zone control is needed, the LCD-203 dimming control system provides up to three zones of control from a single photocell. Since each control channel is individually adjustable, designers can achieve an unprecedented level of precision.

The LCD-203 integrates easily with other control devices, such as occupancy sensors, lighting control panels, or building automation systems. Occupants will appreciate the flexibility offered by an optional wall switch, which affords light level adjustability or override.

### Applications

- Interior spaces that require multiple control zones with independently dimming fixtures in adjoining zones
- Space types include open office areas, classrooms, retail stores, and skylighted spaces



# Automatic Switching Control

## LS-100 Controller

The LS-100 puts daylighting control to work. Its economical, ON/OFF switching capability makes it an ideal control for corridors, brightly lit perimeter areas or retrofit applications.

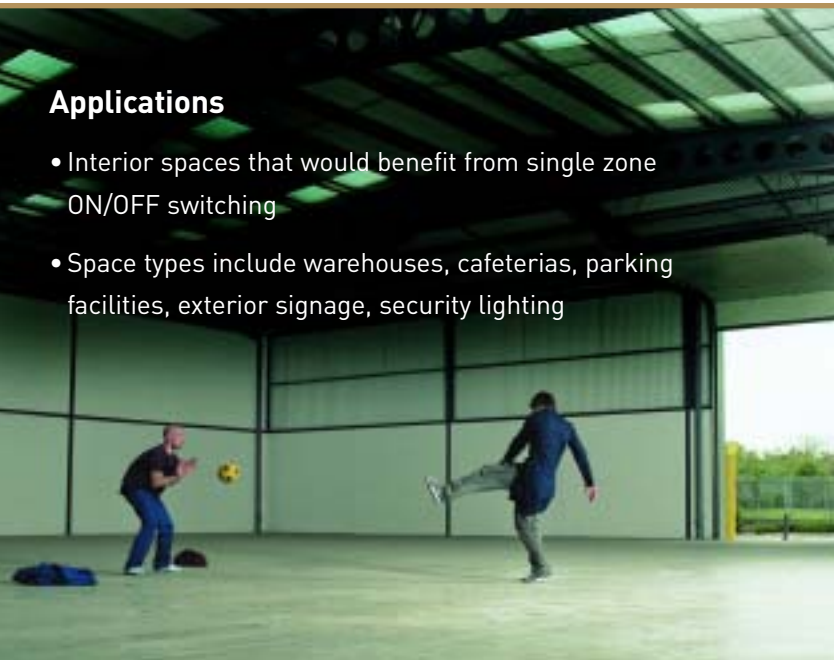


### LS-100 Highlights:

- Single-zone ON/OFF switching
- Three user adjustable parameters: light level setting, time delay, deadband
- Two models for different footcandle ranges
- Dual color LED displays unit status

## Applications

- Interior spaces that would benefit from single zone ON/OFF switching
- Space types include warehouses, cafeterias, parking facilities, exterior signage, security lighting





## LCO-203 ON/OFF Switching Control System

### LCO-203 Highlights:

- Three control channels with individually programmable settings
- Individually adjustable parameters for each channel: ON and OFF delays, deadband, setpoint, load shed setpoint
- Open loop, multi-level switching
- Menu-driven, push-button programming and automated setup
- LCD display of photocell readings
- System components include LCD-203 control module, BT-203 power pack, LS-290C photocell

For gradual, multi-level switching, designers choose multi-channel ON/OFF control with the LCO-203. It affords more balanced lighting while being less distracting to occupants. Easy integration with other control devices ensures seamless automatic shutoff, while an optional wall switch offers individual overrides.

### Applications

- Interior spaces that require multiple control zones of ON/OFF switching
- Space types include warehouses, storage areas, atriums, lobbies, and open office areas



# Daylighting Control System Components and Options

The LCD-203 and LCO-203 control systems consist of the control modules as well as an external photocell and a system power pack. In addition, both systems can include an optional wall switch to provide manual override capabilities.



## LS-290C Photocell

- Extensive footcandle ranges
- Mounts vertically or horizontally
- Architecturally attractive, low-profile design



## BT-203 Power Pack

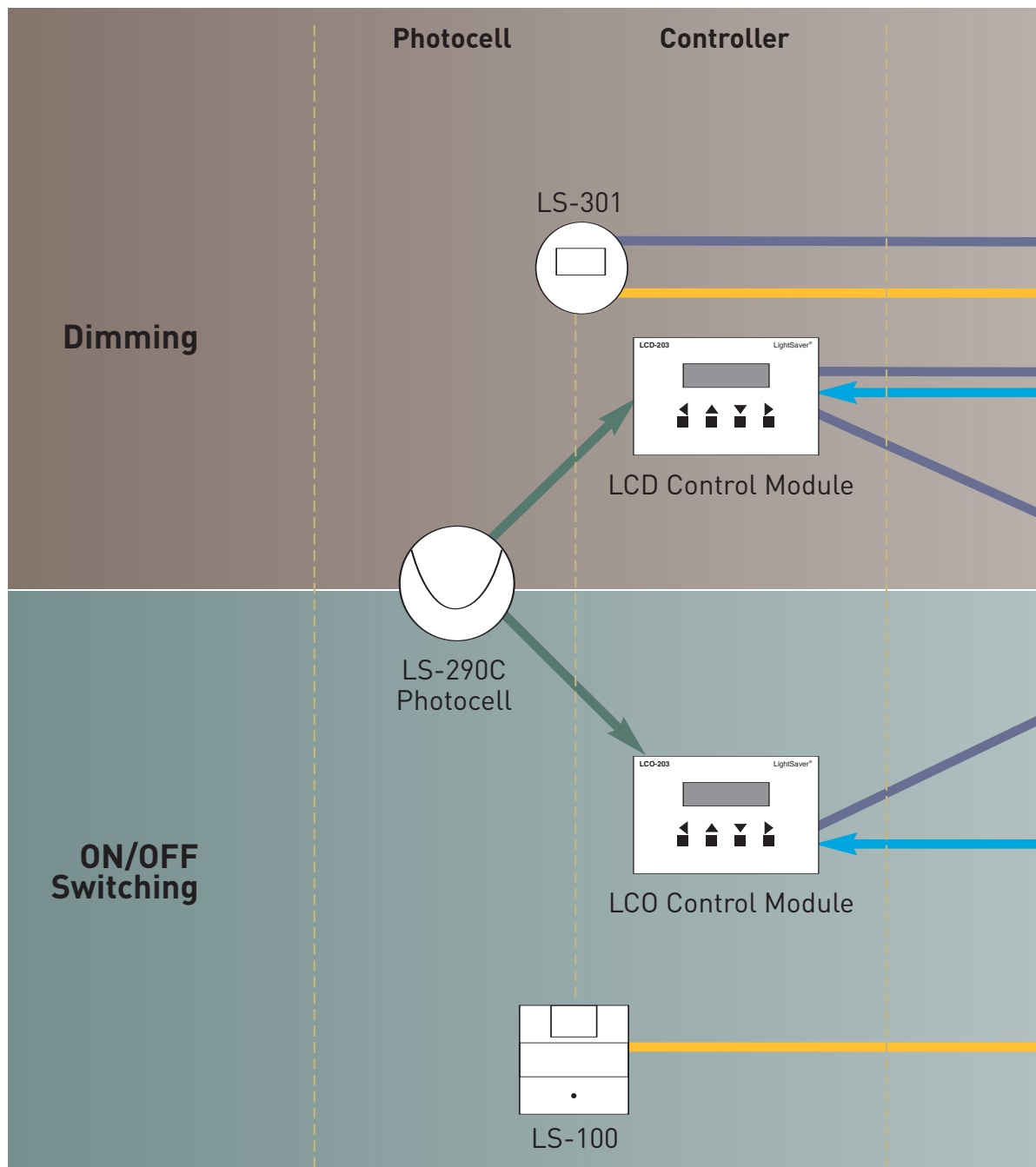
- Quick connect to control modules
- DIN rail mount
- Three individual relays for multi-channel dimming or switching control







# Daylighting Control System Layout



LightSaver offers two options for dimming (LCD system or LS-301) and two options for ON/OFF switching (LCO system or LS-100).





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