

Light Dimmer Box

Model: LDB-2

Flicker-free lighting control

The Light Dimmer Box is a two-channel control designed around its easy-to-use functionality and ability to control LED, CFL, or incandescent lights. The LDB-2 gives you the ability to create lighting programs and schedules that are optimal for your facility.

Benefits of a properly controlled lighting system

Every type of facility and building can benefit from a properly controlled lighting system.



Research shows that a well-designed lighting control system can significantly increase production in dairy operations. Experts say correct light intensity and duration can have positive effects on the

health, fertility, and productivity of dairy cattle. Long-day lighting, also known as photoperiod control, is the most common way to improve production with lighting.



Poultry are affected by the intensity and duration of light. Pullets and laying hens need a quality light source and good uniformity to stimulate growth and provide a safe, relaxed environment. Light can be a

tool to optimize growth, age of sexual maturity, egg weight, and egg production. The Light Dimmer Box is part of that tool.



In swine barns, a quality light source, controlled light levels and good uniformity can positively affect health, production, and welfare of the animals.



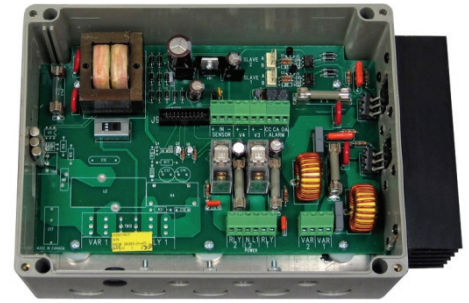
In greenhouses, proper intensity, duration, direction, and quality of light have positive effects on photosynthesis, reproduction, climate response, and plant shape.

Features

- Flicker-free lighting control
- LED, CFL, and incandescent light compatibility
- Two automatic modes:
 - **Power mode** controls by 0 to 100% output
 - **Sensor mode** controls by measured LUX output (requires DOL 16 light sensor)
- Configurable 365-day lighting program
 - Independent programs for each channel
 - Up to 20 schedules/lighting periods, per control mode
 - Up to 12 events per schedule
 - Separate ramp-up and ramp-down durations
 - Automatic program restart option
- Manual override
- Two variable AC channels
- Two DC-signal channels
- Two disconnect relays
- Two light sensor connections
- Light output calibration
- Four-line, 20-character backlit LCD display
- Real-time clock with power-failure settings protection
- NEMA 4X enclosure (corrosion resistant, water resistant, and fire retardant)
- CSA approval
- 2 year warranty

Electrical ratings

- **Power** 120/230 VAC, 50/60 Hz
- **Control fuse** 250 V, 1 A fast-acting glass
- **Variable AC (2)** 8.5 A at 120/230 VAC, general-purpose (resistive)
1000 W at 120 VAC; 2000 W at 230 VAC
- **Variable AC fuses (2)** 15 A, 250 VAC ABC-type ceramic
- **Relays (2)** 10 A at 120/230 VAC, general-purpose (resistive)
1/3 HP at 120 VAC, 1/2 HP at 230 VAC
360 W tungsten at 120 VAC
- **Relay fuses (2)** 12 A, 250 VAC ABC-type ceramic
- **DC signal outputs (2)** 0 to 10 V, 50 Ω , 200 mA
- **Alarm relay** 0.4 A at 125 VAC, 2.0 A at 30 VDC, resistive load
0.2 A at 125 VAC, 1.0 A at 30 VDC, inductive load



Accessories

DOL 16 Light Sensor

The DOL 16 Light Sensor (**model DOL16LIGHT**) is designed to measure light intensity in livestock environments but is also well suited for industrial applications. The sensor has two analog outputs with signals for 0 to 100 LUX and 0 to 1000 LUX.



Expansion Box

The Variable Load Expansion Box (**VLX-20**) is an affordable way to expand the capacity of your lighting system. Installation is simple and requires no additional configuration or programming; all units follow the settings of the Light Dimmer Box.

The VLX-20 has a single 20 A variable AC stage and controls lights on the same phase as the Light Dimmer Box.



LDB Saver

The LDB Saver is an innovative and easy-to-use product that stores a complete copy of a Light Dimmer Box's settings. You can restore the configuration and settings any time, or even set up new controls in seconds!

LDB Updater

The LDB Updater is an innovative and easy-to-use product that updates the firmware of Light Dimmer Boxes as new versions become available. The LDB Updater takes seconds to use and can update all the Light Dimmer Boxes at your site.

