WATTSTOPPER DAYLIGHTING CONTROLLER

LS-102

DESCRIPTION

The **LS-102** daylighting controller is a single-zone on/off switching, closed loop photosensor for interior lighting applications. The **LS-102** will signal a lighting control device to automatically turn off or turn on the designated interior lighting based on the amount of daylight present. It has an advanced digital multiband photosensor, an onboard microcontroller, and an LCD display. The **LS-102** has a 100° optical cone that cuts off unwanted light, eliminating false triggering.

LS-102

FEATURES

- ***Automatic commissioning***
- ***Easy-to-read LCD display***
- ***Four user-adjustable parameters:***
  - ***on setpoint***
  - ***off setpoint***
  - ***time delay***
  - ***"hold on while occupied" mode (requires occupancy sensor)***
- ***Test mode override***
- ***Manual override***
- ***LED status indicator***

APPLICATION

The **LS-102** daylighting controller can be used to control any type of lighting: incandescent, fluorescent, compact fluorescent, or HID. The sensors work in peripheral offices, skylit areas, cafeterias, warehouses, and any other indoor areas with natural light access.

OPERATION

The **LS-102** is a self-contained 24 VDC device with an extended range of 1-1400 footcandles that requires a low voltage power pack to operate. When the user adjusts the setpoints, the device will turn lighting systems off when the ambient light levels exceed the OFF setpoint, and will turn lighting systems back on when natural light levels have fallen below the ON setpoint. Because of its automatic calibration feature, many applications require little or no adjustment of the settings. The **LS-102** can be paired with a low voltage wall switch to enable manual override or with an occupancy sensor to enable its 'hold on while occupied' feature.

ON, OFF, AND DEADBAND SETTINGS

The **LS-102** features automatic setpoint calculations. The device initiates a procedure to select an appropriate value for the on setpoint. As part of the process, the controlled load is first turned on for a brief interval to warm up the lamps, and then switched off. This process is repeated several times. At the completion of the calibration, a new value for the on setpoint will have been selected. Other adjustable settings include deadband and time delay settings. If desired, the deadband can be adjusted to a value of 25, 50, 75, or 100 percent above the setpoint. The time delay can be adjusted to 3, 10, 20, or 30 minutes.

SPECIFICATIONS

Supply Voltage	12/24 VDC; 7 mA typical	**Operating Temperature**	32° to 120°F (0° to 49°C)
Output Signal	24 VDC digital; 120 mA maximum	**Operating Humidity**	less than 90% RH
Deadband Range	25%, 50%, 75% and 100% above the ON setpoint	**Dimensions**	2.4"Ø x 0.7"D (6.1 x 1.8 cm)
		Additional Specifications	Suitable for dry interior locations
ON Setpoint Range	1-850 footcandles	**Approvals**	UL listed, File E101196
Photo Sensor Range	1-1400 footcandles	**Weight**	0.50 lb (0.28 kg)
Status Indicator	Multi-function green LED	**Warranty**	5 years
Time Delay	3, 10, 20, or 30 minutes		

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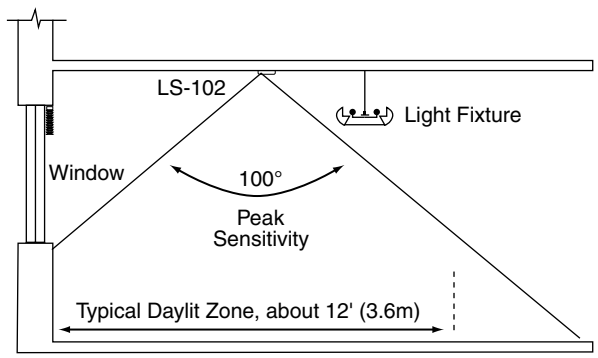
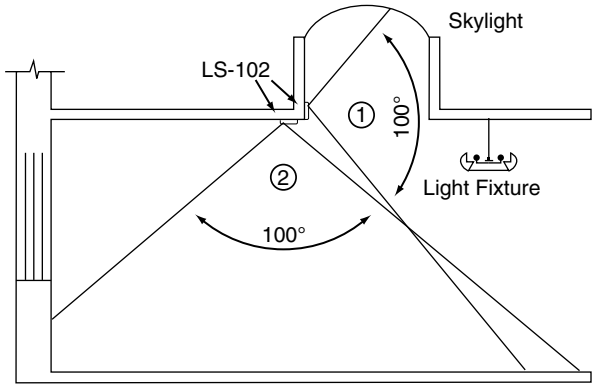
APPLICATIONS

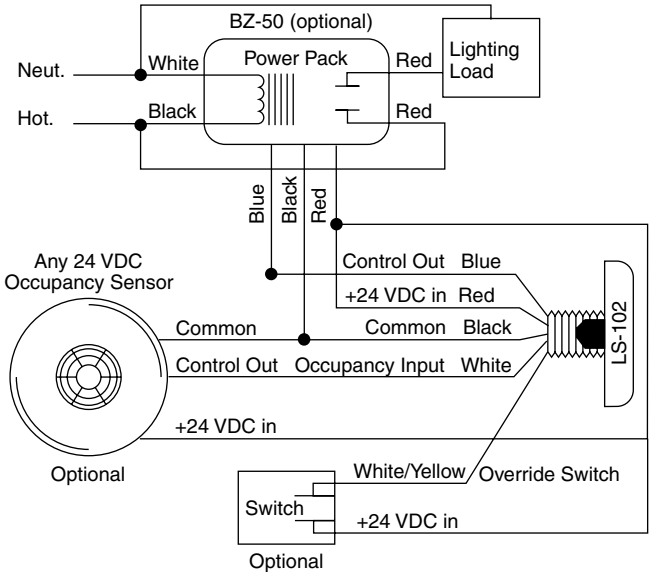
Side Lighting



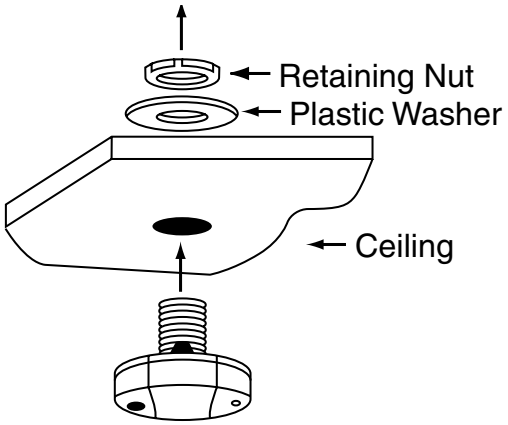
Top Lighting



WIRING



MOUNTING INSTALLATION



ORDERING INFORMATION

MODEL	DESCRIPTION
LS-102	Daylighting Controller

	RELATED PRODUCTS	PAGE
BZ-50	120-277 VAC to 24 VDC power pack	**575**
CL Series	Integrated Lighting Control Products	**536**