



# AS-110 Automatic Control Switch

- ◆ Automatically turns lighting on and off
- ◆ User-selectable multi-function operation
- ◆ Shut off warning with audible beep
- ◆ Five-minute delay off interval prior to impending shut off
- ◆ Overrides the shut off event
- ◆ Multi-way operation for 3 and 4 way switching
- ◆ 20 Amp load rating
- ◆ Locator LED is lit when switch is off
- ◆ UL and CUL listed; Five year warranty



## Component Information

The IntelliSwitch® AS-110 is an automatic control switch which operates as both a manual and automatic control device. Manually, it allows users to control loads on/off. Automatically, it receives signals to turn on or off from Watt Stopper lighting control panels, occupancy sensors or other lighting control systems.

## General Operation

The AS-110 fits in a single gang box and replaces a standard wall switch. As with standard wall switches, occupants turn the lights on and off manually by its convenient push button. However, when a timed power interrupt signal is received from a lighting control panel, or an occupancy sensor, the AS is automatically commanded to turn on, turn off or delay off. The duration of the power interrupt signal determines how the AS-110 will operate (see chart on back).

## Lighting Control Panel Operation

A typical scenario using the AS-110 with a lighting control panel would allow users to manually turn lighting on in individual offices, while lighting in common building areas would turn on automatically. After hours, if lighting was not already shut off by the user, a one-second power interrupt signal from the control panel would command the switch to delay off. This shut off signal warns users that the switch will shut lighting off in five minutes. The locator LED on the AS-110 will blink and an audible beep (if enabled) warns users of the impending shut off. If the AS-110 button is pushed during the five minute delay off time period, the shut off will be cancelled and the switch will remain on until the next commanded shut off signal.

## Occupancy Sensor Operation

The AS-110 can also serve as a manual on switch for occupancy sensors. As a person enters the area, lighting is manually turned on by pressing the push button. While the area is occupied, the occupancy sensor will hold the lighting on. After the area is vacated and after the sensor's time delay expires, power interruption to the load will occur and lighting will turn off. If this happens while the area is still occupied, movement in the area within 15 seconds will turn lighting back on. However, if no motion is detected within 15 seconds, the AS-110 will turn off.

## Features

The AS-110 features a 20 Amp load rating at 120 or 277 volts and uses self-adjusting zero cross switching technology for consistent, reliable operation of high current loads. It can be used in 3-way, 4-way and multi-way switching applications. All settings are selected with the front push button and configuration LEDs. The face plate does not need to be removed for setup. Users can select occupancy sensor mode, automatic on operation, and an audible beep warning.

Since signaling is accomplished through power interruption, the AS-110 does not require additional signal wiring from a lighting control system or panels. This greatly reduces installation labor and costs, making it an economical and effective lighting control strategy. When the AS-110 is used in conjunction with The Watt Stopper lighting control panels or occupancy sensors, it saves energy in a cost effective and convenient manner.

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# AS-110 Technical Information

## Specifications

- ◆ 120 or 277 VAC models; no minimum load requirements
- ◆ Load rating 20 Amp, ballast, incandescent, 1 hp motor
- ◆ Compatible with all electronic ballasts and motor loads
- ◆ Self-adjusting zero cross switching
- ◆ Five minute delay off time with user ability to cancel impending shut off
- ◆ Command off without delay off time
- ◆ User-selectable option settings from front push button and display
- ◆ Selectable occupancy sensor mode
- ◆ Selectable command on
- ◆ Selectable beep warning every minute during last 5 minutes, every 5 seconds during last minute
- ◆ Multi-way operation for 3-way, 4-way, multi-way switching
- ◆ Microcontroller enhances reliability
- ◆ Power interruption signal resolution  $\pm 0.5$  seconds
- ◆ Size: 2.68" x 1.69" x 1.81" (68.0mm x 43.0mm x 46.0mm)
- ◆ UL and CUL listed; five year warranty

## Ordering Information

Catalog No.	Voltage/Description	Ballast (A)	Incan (A)	Motor (hp)
AS-110-120	120 VAC, 60 Hz	20	20	1
AS-110-277	277 VAC, 60 Hz	20	-	1
ASP-211	Cover plate for single gang box (one included with each switch)			
ASP-422	Blank cover plate for 2-gang box			
ASP-432	Cover plate for 2-gang box with switch option			

Add to the end of the catalog no.: -W for white, -I for ivory, -A for light almond

## Power Interruption Signals

Duration	Operation	Operation description
<u>Normal Operating Mode</u>		
1-2 sec	Delay off	Initiates 5 minute delay before shutting load off. Locator light blinks and audible beep sounds (if enabled). Pushing the button cancels shut off from occurring.
3 sec	Turn on	Turns load on if automatic on feature is enabled
5 sec	Turn off	Turns load off
<u>Occupancy Sensor Mode</u>		
<15 sec	Stay on	When power is lost and restored within 15 seconds, the load stays on
>15 sec	Turn off	When power is lost for more than 15 seconds, the load turns off

## Installation & Wiring

