

# S P E C I F I C A T I O N S

## UW-100 Ultrasonic Wall Switch Sensor

### UW-100 UW-100-347

1. Sensor shall be capable of detecting presence in the control area by detecting Doppler shifts in transmitted ultrasound.
2. Ultrasonic sensing shall be volumetric in coverage with a frequency of 40 KHz. It shall utilize Advanced Signal Processing which automatically adjusts the detection threshold dynamically to compensate for constantly changing levels of activity and air flow throughout controlled space.
3. Sensor shall utilize SmartSet™ technology to optimize automatic time delay to fit occupant usage patterns. The use of SmartSet shall be selectable with a DIP switch.
4. Sensor shall utilize Zero Crossing circuitry to reduce stress on relay and therefore increase sensor life.
5. UW-100 sensor shall have no minimum load requirement and shall be capable of switching from 0 to 800 Watt incandescent; 0 to 800 Watt fluorescent or 1/6 hp @ 120 VAC, 50/60Hz; and 0 to 1200 Watt fluorescent @ 230/277 VAC, 50/60Hz.
6. UW-100-347 sensor shall have no minimum load requirement and shall be capable of switching from 0 to 1500 Watt fluorescent @ 347 VAC, 50/60Hz.
7. To blend in aesthetically, sensor shall not protrude more than 3/8" from the wall.
8. Sensor shall feature a walk-through mode, where lights turn off three minutes after the area is initially occupied if no motion is detected after the first 30 seconds, set by a DIP switch.
9. Robotic test method as referred in the NEMA WD 7 guide shall be utilized for minor motion coverage verification.
10. Sensor shall cover up to 400 sq. ft. for walking motion, and cover 180 degree.
11. Sensor shall have automatic-on or manual-on operation adjustable with DIP switch.
12. Sensor shall have a time delay that is adjusted automatically (with the SmartSet setting) or shall have a fixed time delay of five to 30 minutes, set by DIP switches.
13. In automatic mode, sensor shall be capable to automatically return to automatic-on after lights are turned off manually.
14. Sensor shall have the option for an audible warning that shall beep to warn the end-user before lights turn off automatically.
15. Sensor shall have the option for a visual warning that shall flash lights to warn the end-user before lights turn off automatically.
16. Sensor shall have a LED indicator that remains active at all times in order to verify detection within the area to be controlled.
17. Sensor shall have a service switch to allow end-users to operate the sensor in the unlikely event of a failure; set by a trim pot or dip switch.
18. Sensor shall be able to control incandescent, magnetic low voltage, electronic low voltage, and fluorescent loads.
19. Sensor shall have a built-in light level featuring simple, one-step daylighting setup that works from 8 to 180 footcandles.

# S P E C I F I C A T I O N S

## UW-100 Ultrasonic Wall Switch Sensor

**UW-100**  
**UW-100-347**

20. Switching mechanism shall be a relay(s). Triac and other harmonic generating devices shall not be allowed. Sensor shall have ground wire and grounded strap for safety.
21. The Ultrasonic wall switch sensor shall be a completely self contained control system that replaces a standard toggle switch
22. To ensure quality and reliability, sensor shall be manufactured by an ISO 9002 certified manufacturing facility and shall have a defect rate of less than 1/3 of 1%.
23. Sensor shall have standard five-year warranty and shall be UL and CUL listed.