

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

PW-100 Passive Infrared Wall Switch Sensor

PW-100
PW-100-347

1. Sensor shall be capable of detecting presence in the control area by detecting changes in the infrared energy.
2. The Passive Infrared (PIR) technology shall utilize a temperature compensated, dual element sensor and a multi-element Fresnel lens. The lens shall be Poly IR4 material to offer superior performance in the infrared wavelengths and filter short wavelength IR, such as those emitted by the sun and other visible light sources. The lens shall have grooves facing in to avoid dust and residue build up which affects IR reception.
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. PW-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. PW-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 and utilize color-matched lens.
8. To assure detection at desktop level uniformly across the space, sensor shall have a 28-segment, two-level, Fresnel injection molded lens.
9. Sensor shall feature a walk-through mode, where lights turn off 3 minutes after the area is initially occupied if no motion is detected after the first 30 seconds, set by a DIP switch.
10. To avoid false on activations and to provide immunity to RFI and EMI, Detection Signature Processing shall be used to examine the frequency, duration, and amplitude of a signal, to respond only to those signals caused by human motion.
11. Robotic test method as referred in the NEMA WD 7 guide shall be utilized for minor motion coverage verification.
12. Sensor shall cover up to 1,000 sq. ft. for walking motion, with a field view of 180 degree
13. Sensor shall have automatic-on or manual-on operation adjustable with DIP switch.
14. Sensor shall have a time delay that is adjusted automatically (with the SmartSet setting) and shall have a fixed time delay of 5 to 30 minutes, set by DIP switches.
15. In automatic mode, sensor shall be capable to automatically return to Automatic-on after lights are turned off manually.
16. Sensor shall have the option for an audible warning that shall beep to warn the end-user before lights turn off automatically.
17. Sensor shall have the option for a visual warning that shall flash lights to warn the end-user before lights turn off automatically.
18. Sensor shall have a LED indicator that remains active at all times in order to verify detection within the area to be controlled.

 **WattStopper**

 **legrand**

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19. Sensor shall have a service switch to allow end-users to operate the sensor in the unlikely event of a failure, set by a DIP switch.
20. Sensor shall be able to control incandescent, magnetic low voltage, electronic low voltage, and fluorescent loads.
21. Sensor shall have a built-in light level featuring simple, one-step daylighting setup that works from 8 to 180 footcandles.
22. 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.
23. The PIR wall switch sensor shall be a completely self-contained control system that replaces a standard toggle switch
24. 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%.
25. Sensor shall have standard five-year warranty and shall be UL and CUL listed.