

TYPICAL APPLICATIONS

- Hotel Bath/Toilet Rooms
- Hotel Sink Areas
- Hospital Bathrooms

FEATURES

- White LED Night Light
- Manual On or Auto On Selectable
- Designed for High Humidity
- Fits next to GFI Receptacles
- PIR Occupancy Detection
- Self Contained Relay, no Power Pack needed
- Patented Bi-Polar Wiring: Hot & Load Wires are Interchangeable
- No Minimum Load
- Push-Button Programmable
- Time Delay: 30 sec. to 2 Hours
- Green LED Status Indicator

SPECIFICATIONS

- Size: 4.2"H x 1.8"W x 1.5"D (10.67cm x 4.57cm x 3.81cm)
- Sensor Weight: 5 Ounces
- Colors: Ivory, White, Gray, Almond
- Mounting: Single Gang Switch Box
- Mounting Height: 30 to 48 inches
- Relative Humidity: 20 to 90% non-condensing
- Operating Temp: -40° to 85° F (-40° to 29° C)
- Storage Temp: -40° to 160° F (-40° to 71° C)
- Load Rating (1 phase only):
120 VAC @ 800 W
277 VAC @ 1200 W
- 1/4 HP Motor Load
- Frequency: 50/60 Hz (Timers are 1.2 x for 50 Hz)
- UL, CUL, & CSA Listed
- 5 Year Warranty
- Made in U.S.A

LOW TEMP/HI HUMIDITY

- Conformally coated Circuit Board is corrosion resistant from moisture
- Operates down to -40° F (-40° C)

WSD-NL SERIES

The NightLite™ Sensor



As the name implies, The *NightLite Sensor* (WSD-NL Series) is a combination 24/7 night light and occupancy sensor capable of turning the lights off when the room is vacant. The *NightLite Sensor* is the perfect solution for Hotel and Hospital bathrooms where guests tend to leave the light on all night. A user programmable time delay ensures that once the room is vacated the sensor will time out and turn off the lights. The WSD-NL comes factory set in Semi-Automatic (Manual On) mode meaning the button needs to be pushed in order to turn on the lights. Besides Semi-Automatic operation, several other On Modes and Switch Modes can be programmed into the sensor using the front push-button. For rooms with obstructions the WSD-PDT-NL should be considered.

SENSOR OPERATIONS

The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. If the push-button is pressed (when in Manual On mode) or if occupancy is detected (when in Automatic On mode), a self-contained relay switches the lighting "On". The sensor is line powered and can switch line voltage (see specifications). An internal timer, factory set at 60 minutes, keeps the lights "On" during brief periods of no activity. This timer is push-button programmable from 30 seconds to 2 hours, and is reset every time occupancy is re-detected. This state-of-the-art sensor requires no manual sensitivity adjustments.

OPERATIONAL MODES

On Modes (*Default)

Automatic On - The sensor automatically turns the lights on when the sensor detects occupancy.

Manual On (Semi-Automatic)* - The occupant must press the sensor's button to turn the lights on.

Reduced Turn-On - The sensor is set to initially only detect large motions, effectively ignoring any reflected PIR signals while still sensing occupants when they enter the room. Once on, the sensor returns to maximum sensitivity.

Switch Modes (*Default)

Predictive Off - Pressing the switch overrides the lights off and temporarily disables the occupancy detection. After an exit time delay (default 10 seconds) the occupancy detection reactivates and monitors for an additional grace period time (default 5 seconds). If no occupancy is detected during this period, the sensor will revert to Automatic On operation. If occupancy is detected, the sensor will remain in Permanent Off mode requiring the switch to be pressed again in order to restore the sensor to Automatic On.

Permanent Off* - Pressing the push-button switch will turn the lights off. The lights will remain off regardless of occupancy until the switch is pressed again, restoring the sensor to Automatic On mode.

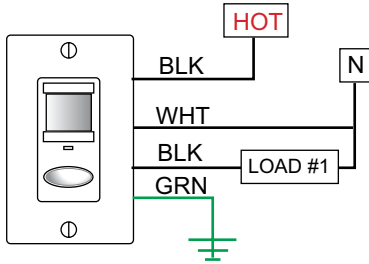
Switch Disable - Prevents user from manually turning off the lights via the push-button.

Model Numbering System: WSD-NL-[VOLTAGE]-[COLOR*]

SERIES #	VOLTAGE	COLOR
WSD-NL	Blank = 120 VAC -277 = 277 VAC	-I = Ivory -W = White -G = Gray -A = Almond

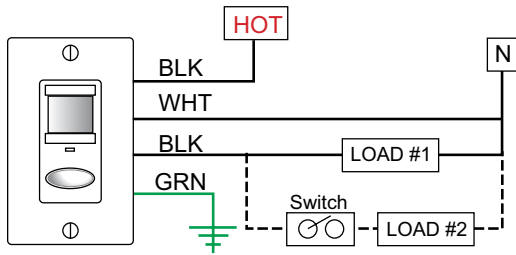
*Must specify color

T057-002-P



TYPICAL WIRING DIAGRAM (DO NOT WIRE HOT)

The sensor's Black wires connect to the Hot (Line) power feed and the Load (Black wires are interchangeable). The sensor White wire connects to Neutral. The sensor Green wire connects to ground. The sensor requires several minutes to warm up.



WIRING TO A LIGHT AND A FAN

One of the sensor's Black wires connects to the Hot (Line) power feed. The sensor's other Black wire connects to the Light and the Toggle Switch controlling the Exhaust Fan. The sensor's Green wire connects to Ground. When the sensor is in the Occupied Mode, the Exhaust Fan may be overridden "Off" by the Toggle Switch.

Optional Exhaust Fan



- Multi-gang installation
- Light & Fan Control
- Standard 2-gang plate not included

10 SECOND GRACE PERIOD

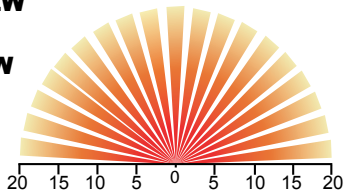
When in Manual On mode, if the sensor times out and turns off the lights, the PIR detector will remain active for 10 seconds to allow the occupant to move and automatically turn on the lights. However, after 10 seconds, the push-button must be pressed to activate the lights.

AREA OF COVERAGE

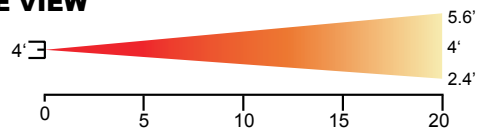
The PIR collector beams view out horizontally in a wall-to-wall pattern. The beams will see out to 20 feet, however, the effectiveness for small hand or body motions is 10 feet.

FIELD OF VIEW

TOP VIEW



SIDE VIEW



WARNING

Fire Hazard Caution: Maximum Lamps 1500 Watts, Type 347 VAC.

Attention: Risque d'incendie : Pauissance Maxemales Des Lampes 1500 Watts, Type 347 VAC.

Warning: The units are intended to be installed by a qualified person with properly rated branch circuit protectors as per applicable local and national regulations (CEC, NEC).



WARRANTY: Sensor Switch, Inc. warrants these products to be free of defects in manufacture and workmanship for a period of sixty months. Sensor Switch, Inc., upon prompt notice of such defect will, at its option, provide a Returned Material Authorization number and repair or replace returned product.

LIMITATIONS AND EXCLUSIONS: This Warranty is in full lieu of all other representation and expressed and implied warranties (including the implied warranties of merchantability and fitness for use) and under no circumstances shall Sensor Switch, Inc. be liable for any incidental or consequential property damages or losses.



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