

TYPICAL APPLICATIONS

- Classrooms w/o Obstructions
- Large Conference Rooms
- Large Open Spaces
- Hallways

FEATURES

- PIR Occupancy Detection
- Communicates with Other Sensors
- 120° by 40ft. Coverage for Small Motion
- Time Delay: 30 sec. to 20 minutes
- Push-Button Programmable, w/o removing cover
- Green LED Activity Indicator
- 100 Hr. Lamp Burn-in Timer Mode

AVAILABLE OPTIONS

- Isolated Low Voltage Relay (-R)
- On/Off Photocell (-P)
- Low Temp/Hi Humidity (-LT)

SPECIFICATIONS

- Size: Rectangular, 3.0" x 3.6" x 1.75"
(7.62 cm x 9.14 cm x 4.45 cm)
- Sensor Weight: 5 Ounces
- Sensor Color: White
- Mounting: 8 to 10 Feet in Corner or Ceiling using bracket (WV-BR)
- Relative Humidity: 20 to 90% non-condensing
- Operating Temp: 14° to 160° F
(-10° to 71° C)
- Storage Temp: -14° to 160° F
(-26° to 71° C)
- Operating Voltage: 12-24 VAC/VDC
- UL, CUL, and Title 24 Compliant
- 5 Year Warranty
- Made in U.S.A.

LOW TEMP/HI HUMIDITY(-LT)

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

WV-16 SERIES & WV-BR (Bracket)

w/ Enhanced
Photocell Option!



able to fit in the palm of your hand, the WV-16 Wide View Sensor unobtrusively mounts in a corner near the ceiling detecting small motions up to 40 feet away, and large motions up to 70 feet away. The unique "Tilting feature" allows this sensor to be mounted anywhere from 8 to 10 feet with excellent long-range coverage. In 30 by 30 ft. classrooms with no obstructions, this is all the sensor you will need. In corridors, the WV-16 is mounted flat against the wall and volumetrically views up to 70 feet. (For specific long narrow hallway applications, see HW-13 Technical Data Sheet). When corner or wall mounting is not possible, use ceiling bracket WV-BR accessory to locate the WV-16 on the ceiling where desired. By using multiple Wide Views in combination with the CM-9 PIR ceiling sensor, odd shaped rooms or corridors are also easily covered. For rooms with obstructions, the WV-PDT or CM-PDT-10 Dual Technology sensors should be used.

SENSOR OPERATIONS

The sensor detects changes in the infrared energy given off by occupants as they move within the field-of-view. When occupancy is detected, a DC output goes high and can drive up to 200 mA of connected load. The sensor is powered with 12 to 24 VAC/VDC and typically operates with a PP-20 or MP-20 Power Pack; enabling complete 20 Amp circuits to be controlled. An internal timer, factory set at 10 minutes, keeps the lights "On" during brief periods of no activity. This timer is selectable at 2.5 minute increments from 30 seconds to 20 minutes, and is reset every time occupancy is re-detected. This state-of-the-art design requires no manual field adjustments.

DAYLIGHTING CONTROL OPTION (WV-16-P)

For spaces with abundant natural light from windows or skylights, this series offers an On/Off Photocell (-P) option. The -P option is ideal for public areas like vestibules, corridors, and restrooms; or spaces like classrooms and private offices. As the daylight levels change in the room, the -P option insures that an adequate light level is maintained according to a programmable set-point value. The -P option provides two modes of operation; one simply inhibits the lights from turning on, while the other has full On/Off control of the lights. For more detailed information on these daylighting control features, see the CM-PC Technical Data Sheet.

INTERNAL LOW VOLTAGE RELAY OPTION (WV-16-R)

To enable a sensor to interface with a building management system, the -R option provides dry contact closure via a SPDT, 1 Amp, 40 Volt relay. The relay coil is energized and changes state when ALL connected sensors register "Unoccupied". When using multiple sensors, only one sensor per zone needs to have a relay.

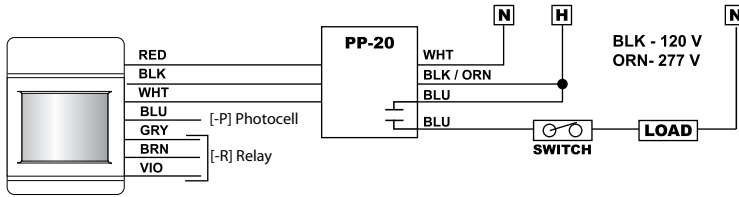
Note: Sensor must have power at all times for the relay to function .

CATALOG INFORMATION

MODEL #	DESCRIPTION	TEMPERATURE	OP. VOLTAGE	CURRENT
WV-16	Passive Infrared Wide View Sensor	14° to 160° F	12 to 24 VAC/VDC	3 mA
Add suffix				
-R	SPDT Relay, 1 Amp		12 to 24 VAC/VDC	13 mA
-P	On/Off Photocell		12 to 24 VAC/VDC	3 mA
-RP	Relay & On/Off Photocell		12 to 24 VAC/VDC	13 mA
-LT	Low Temp/High Humidity	-40° to 160° F		
Accessory				
WV-BR	Ceiling Mount Bracket			

WIRING INSTRUCTIONS

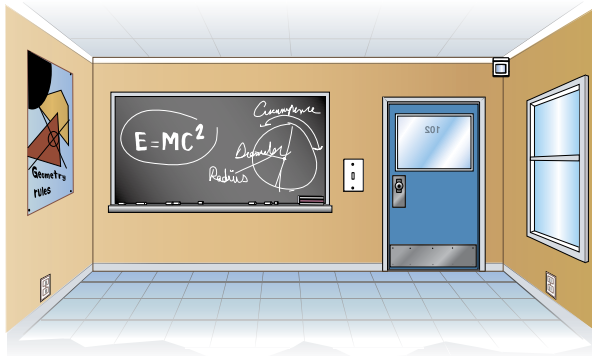
Wire lead connections are Class II, 18 to 22 AWG.



Do Not Wire Hot

INSTALLATION CONSIDERATION

The WV-16's rear enclosure is beveled so as to be corner mounted at 8 to 10 feet (see tilt settings). Always mount sensor in a corner above the entrance door or in a corner along the same wall as the entrance. If the room is large and multiple sensors are needed, mount the second sensor in the opposite corner, however tilt sensor forward to ensure that the PIR collector beams are not viewing out the door. For mounting heights above 10 feet, use the WV-BR and mount sensor to angled side to provide an initial 30° look down.



STANDARD WV-16

RED - 12 to 24 VAC/VDC
 BLACK - Common
 WHITE - Output (HI DC for Occupancy)

PHOTOCELL OPTION (-P)

BLUE - Photocell output (High: Occupied & Low Light)

Note: Use Blue wire from sensor in place of White wire. For multi-level control, use 2 Power Packs and connect White to primary load and Blue to daylight load.

RELAY OPTION (-R)

GRAY / BROWN - Connected during Occupied state
 VIOLET / BROWN - Connected during Unoccupied state

Note: Relay is energized during Unoccupied state

CEILING MOUNT BRACKET (WV-BR)

The WV-BR Ceiling Mount Bracket allows the WV-16 to be mounted in the corner of the area from the ceiling for conditions where mounting to the wall is not possible.



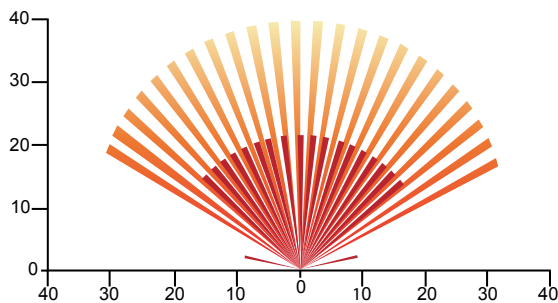
WV-BR

TILT ADJUSTMENT

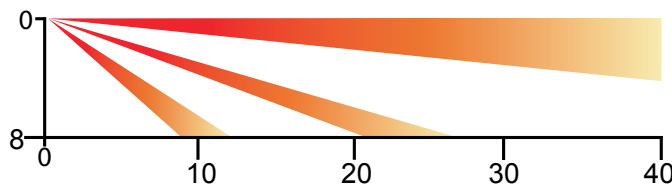
Mt. Ht.	Position
7' - 8'	Vertical
8' - 9'	Center
9' - 10'	Forward
Above 10'	Use WV-BR



TOP VIEW



SIDE VIEW



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 a replacement 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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revised 06/21/2006
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