Self-powered, Wireless (wall-mount)
Motion Occupancy Sensor

Saving energy without sacrificing comfort can be effortless with occupancy-based sensing & control. The Verve Occupancy Sensor enables a new level of energy saving control for rooms, hallways and other common areas. The sensor can be used to setback room temperatures and/or turn off lights &/or electrical loads when spaces are unoccupied.

SELF-POWERED, WIRELESS & AUTOMATED ENERGY SAVINGS

Energy Saving Retrofit Kits - Pre-linked / pre-configured kits enable immediate energy savings in unoccupied spaces

EOSW

Predictable, Field-validated Energy Savings

- **Self-powered!** No batteries / No line-power needed. Integrated solar cell harvests indoor light to power the device and eliminates the need for installing wires and replacing batteries.
- PIR motion sensor with both wide angle and long range options for maximum efficiency and flexibility in different room settings
- Two molded buttons with LED indicator lights used for configureing the device
- Internal tray accommodates supplemental coin cell battery for use in extreme low light environments

Wireless communications are based on the EnOcean standard & interoperable with the entire family of Verve & ZENO Controls.

Payback Numbers from Verve-automated Hotels in the USA
Average Payback Period = 1.85 years*
Average Energy Savings / Year (100-room hotel) = $11,650*

Visit VerveLS.com for ROI (return-on-investment) data & energy monitoring results from hotels that employed wireless controls to save energy.

* Paybacks vary according to site-specific ROI impact variables:

>>> Cost of electricity, climate, local utility rebates, occupancy rates, HVAC system type, etc.

Verve Living Systems

(312) 874-6440

saveEnergy@verveLS.com

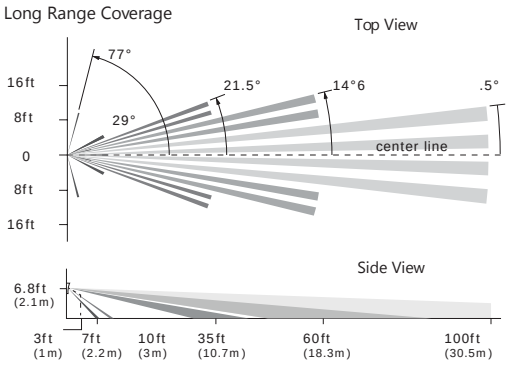
verve™ living systems

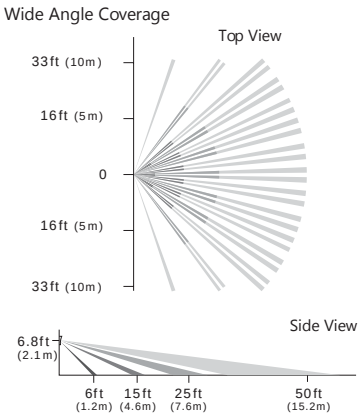
Motion Occupancy Sensor (wall-mount)

Specifications

Wireless Range	80ft. (25m, through 4 walls or ceilings)
Wireless Communications	EnOcean 315 MHz EnOcean 902 MHz
Power Supply	Indoor light energy harvesting (Optional supplemental battery or 2-wire connector for external power or remote solar cell)
Motion Detection Range	50ft. wide angle lens / 100ft. long range lens
Minimum Operating Light	50 lux (for auto-off only)
Startup Charge Times (from empty)	*First Motion* Transmission / Linking = 5 min @200 lux *Motion LED blink* Light/Walk Test Modes = 1.5 hours @2000 lux
Note: Bright light or battery can be temporarily used to shorten initial startup charge times	
Charge Time to Full	25 hrs @ 200 lux
Sustaining Charge Time	3 hours per 24 hours @ 200 lux
Motion Transmission Interval	2 minutes
Unoccupied Transmission	10 and 30 minutes since last motion detection
Heartbeat Transmission Interval	default = disabled / enabled = 1 hr intervals
Operating Life in Darkness	80 hours (after full charge)
EnOcean Equipment Profile (EEP)	A5-07-01
Dimensions	5.83" H x 2.52" W x 1.8" D (148mm x 64mm x 45.7mm)
Mounting Height	6 - 8 feet (recommended)
Agency Certifications	902 MHz Contains FCC: SZV-STM300U IC: 5713A-STM300U 315 MHz Contains FCC: SZV-EOSW01 IC: 5713A-EOSW01
Warranty	5 years

Sensor Range and Coverage Diagrams





Ordering Information

Model #	Description
EOSW-3	Verve Wireless Motion Occupancy Sensor (315 MHz, wall-mounted)
EOSW-9	Verve Wireless Motion Occupancy Sensor (902 MHz, wall-mounted)

Pre-configured Kits

Sample Wireless Kits
(go on-line for more configurations)

EHSM HVAC Setback Module +
EDWS Entry Door Sensor +
EOSW Motion Occupancy Sensor

IPAC Plug-in AC Module +
EDWS Entry Door Sensor +
EOSW Motion Occupancy Sensor

VTST Wireless WiSPER Thermostat +
EDWS Entry Door Sensor +
EOSW Motion Occupancy Sensor

Forward Compatible

upgrade anytime with ZENO gateways, software &/or InnPoint® front-end.

Modbus
Mobile
BACnet
TCP / IP

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