



Door/Window Sensor

A simple solution for saving energy when doors and windows are left open.

The Verve® Door/Window Sensor can be easily mounted on any standard door or window frame to enable occupancy based control of lighting, HVAC and miscellaneous electric loads. The sensor uses radio frequency technology to communicate wirelessly with other Verve devices whenever it detects that a door or window has been opened or closed.

The sensor is completely self-powered by harvesting ambient solar energy so there are no wires to run or batteries to replace, reducing installation time and eliminating the need for on-going maintenance. For maximum efficiency and control of energy use, combine the door and window sensor with Verve ceiling or wall mounted occupancy sensors.



Features & Benefits

- Communicates wirelessly with other Verve devices using EnOcean radio frequency technology.
- Integrated solar cell harvests energy from ambient lighting to power the sensor and eliminate the need for wires or batteries.
- Single button with LED indicator light enables simple device configuration.
- Built in mounting plate for easy installation on any standard door or window frame.
- Internal tray for optional coin cell battery use in low light environments.



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Specifications

Power Supply	Solar harvesting (with supplemental battery option)
Inputs/Outputs	<ul style="list-style-type: none">• Integrated solar cell for energy harvesting• Magnetic reed switch contact sensor• Radio Frequency (RF) transmitter• Button with LED for device configuration
Communications	315MHz EnOcean RF transmitter
Transmission Range	80ft. (25m)
Light Required to Maintain Operation	15 lux for 6 actuations/hour 50 lux for 30 actuations/hour 100 lux for 60 actuations/hour
Charge Time to Startup	2.7 hours @ 10 lux 3.7 minutes @ 200 lux
Time to Full Charge	21 hours @ 200 lux (after startup) 42 hours @ 200 lux (cold start)
Fully Charged Operating Life in Darkness	174 hours: heartbeat only 67 hours @ 10 actuations/hour 10 hours @ 100 actuations/hour
RF Transmission	On door opening/closing events or heartbeat
Maximum Sensor Gap	0.25in. (6.4mm)
Sensor Dimensions	3.15" H x .83" W x .59" D (80mm x 21mm x 15mm)
Magnet Dimensions	3.15" H x .47" W x .5" D (80mm x 12mm x 13mm)
Total Weight	0.97oz. (27.5g)
Mounting	Sensor (door or window frame), Magnet (door or window)
Agency Listing	FCC, I.C.
Warranty	5 years

Ordering information

Item Number	Item Description	Color
VDWS-W	Door/Window Sensor	White

Typical Applications

The Verve® Door/Window Sensor is most often paired with a Verve occupancy sensor to accurately detect when someone enters or exits a room enabling more efficient control of energy use. It can also be used stand-alone to avoid wasted energy by setting back the HVAC when it detects that an outside door or window has been left open.



HVAC Setback Module
VHSM-W



Occupancy Sensor, Wall
VOSW-W (shown)
Occupancy Sensor, Ceiling
VOSC-W



Thermostat
Low V: X4103100W3VN
Line V: X41031LOW3VN



In-Line Switch Module
VISM-W

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