WAVE wall switch sensors

Line-voltage PIR and dual-technology sensors that replace a standard switch

Made by B.E.G. Controls

WAVE sensors drop into a single-gang box in place of a wall switch, so a small office, restroom or storage room gets automatic shutoff without new wiring. PIR models cover open sight lines; dual-technology models add ultrasonic detection for partitions and stalls. The O/V line can run occupancy (auto-on) or vacancy (manual-on); the V line is vacancy only.

1,200
sq ft max coverage

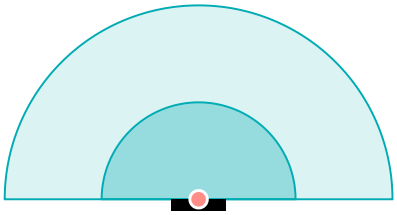
800 W
@ 120 V resistive

15 s–30 min
time delay

Features

- Up to 1,200 sq ft (40 ft) maximum coverage; best performance to 20 ft / 320 sq ft
- PIR or dual technology (PIR + ultrasonic)
- Single relay or dual relay (two loads or bi-level) models
- Integral photocell holds lights off when there is enough daylight
- Adjustable time delay 15 seconds to 30 minutes
- 120/277 V AC dual voltage; no minimum load
- Occupancy/vacancy (O/V) and vacancy-only (V) versions for code-driven spaces
- Indoor dry locations; fits a decorator wall plate

Coverage



Maximum · 40 ft
Best performance · 20 ft

Wall mount at switch height. Pattern shown is typical.



Single relay



Dual relay (DR)

Specifications

Specification	All WAVE models
Operating voltage	120/277 V AC, 60 Hz
Max load, resistive	800 W
Max load, fluorescent/LED driver	800 VA @ 120 V AC · 1,600 VA @ 277 V AC
Max load, motor	1/4 hp

Specification	All WAVE models
Minimum load	None
Max sensor range	40 ft / 1,200 sq ft
Best performance	20 ft / 320 sq ft
Time delay (follow-up time)	15 s – 30 min
Light threshold	30 lux to daylight
Operating temperature	32 °F to 131 °F (0 °C to +55 °C)
Storage temperature	14 °F to 140 °F (-10 °C to +60 °C)
Location	Indoor, dry

Ordering information

Model	Item no.	Technology	Relays	Neutral	Mode
WAVE-PIR-120/277	97344	PIR	Single	Not required	Occupancy / vacancy
WAVE-PIR-120/277-DR	97346	PIR	Dual	—	Occupancy / vacancy
WAVE-DT-120/277-N	97348	PIR + ultrasonic	Single	Required	Occupancy / vacancy
WAVE-PIR-V-120/277-N	97332	PIR	Single	Required	Vacancy only
WAVE-PIR-V-120/277-DR	97336	PIR	Dual	—	Vacancy only
WAVE-DT-V-120/277-N	97338	PIR + ultrasonic	Single	Required	Vacancy only

Applications

- Private offices
- Restrooms (dual technology)
- Storage rooms and closets
- Custodial and electrical rooms
- Break rooms and small meeting rooms

Application notes

- Use dual-technology (DT) models where occupants can be out of the sensor's line of sight, such as restroom stalls.
- Dual-relay (DR) models control two loads, or provide bi-level switching, from one gang.
- The V suffix denotes the vacancy-only line; confirm the mode with B.E.G. data before submittal.
- Order a decorator wall plate separately.

Data from B.E.G. WAVE technical data (begcontrols.com). Energio Sensors products are manufactured by B.E.G. Controls and specified, sold and supported in North America by Energio Brands. Specifications are subject to change; confirm against the manufacturer's current data before submittal. Product images courtesy of the manufacturer. All trademarks belong to their respective owners.