

GE Lighting Controls

GE Aware™

Dual Technology Corner/Wall Mounted Low Voltage Occupancy Sensor

SDT-WIDE

Overview

The SDT-WIDE Corner/Wall Mount Low Voltage Occupancy Sensor is a Passive Infrared (PIR) and Ultrasonic (US) motion sensing lighting control, used for energy savings and convenience. PIR is used to turn the lights ON and then either or both technologies are used to keep the lights ON. When motion is detected, the blue wire is electronically connected to the red wire, energizing the relay in the switchpack to turn on the load. If vacancy is detected, the blue wire is disconnected from the red, causing the relay to open turning off the load. The red lead is 10-30 VDC supply, the black lead is common, and the blue is the relay control.

PIR Technology

The sensor's segmented lens divides the field of view into sensor zones, and detects the changes in temperature that are created when a person, or part of a person as small as a hand, passes into or out of a sensor zone.

US Technology

The sensor produces a low intensity, inaudible sound. It detects occupancy from changes in the acoustic waves caused by motion, such as reaching for a telephone, turning a page in a book, walking into a room, turning in a swivel chair, etc. The sensor does not respond to audible sound.

The sensor includes self-adaptive technology that continually adjusts to conditions by adjusting sensitivity and time delay in real-time. The Daylighting feature (-D model only) prevents lights from turning ON when the room is adequately illuminated by natural light.

Walk-Through feature maximizes energy savings by not leaving the lights ON after momentary occupancy. The sensor will switch the lights ON when it detects a person entering the area. If the sensor does not continue to detect motion 30 seconds following the initial activation, it will automatically go to a shorter 2 minute time delay.

In Automatic ON Mode, the lights turn ON when a person enters the room. In Manual On Mode, the lights are turned ON by activating a momentary switch (model # RS2-*) that is connected to the sensor. When used with 2 level lighting (-D model only), bi-level Automatic-on can be achieved which allows Zone 1 to come ON automatically upon occupancy. Zone 2 does not come ON unless the occupant presses the optional momentary switch.

Ordering

Product Code	Description	Color	Field of view	Features
63288	SDT-WIDE	White	Wide angle, 120°	
63289	SDT-WIDE-D	White	Wide angle, 120°	BAS relay & daylight sensor



Specifications

Technology: Passive Infrared (PIR) and Ultrasonic (US)

Power Requirements:

Input:

10-30 VDC from GE Switchpack or GE system.
Maximum current needed is 25mA per sensor

Output:

Open collector output to switch up to ten GE Switchpacks. BAS with Isolated Form C Relay (-D model) isolated Form C Relay Ratings: 1A 30VDC/VAC

Time Delays: Self-Adjusting, 15 seconds/test (10 min Auto), or Selectable 5, 15, 30 minutes

Coverage: 1200 sq. ft.

Light Level Sensing: 0 to 300 foot-candles (- D model)

Operating Environment:

Temperature: 32° F – 104° F (0° C – 40° C)
Relative Humidity: up to 90% non-condensing

Housing:

Medium impact injection molded housing.
Polycarbonate resin complies with UL94V0.

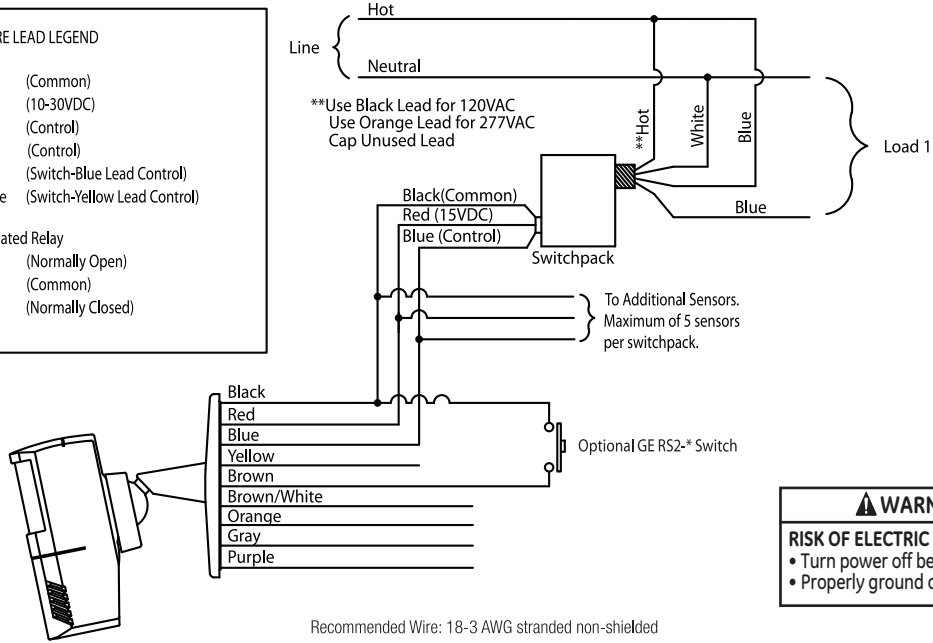
Size: 4.4" x 3.4" x 2" (112mm x 86.4mm x 50.8mm)

LED Indicators: Red indicates PIR detection; Green indicates Ultrasonic detection.

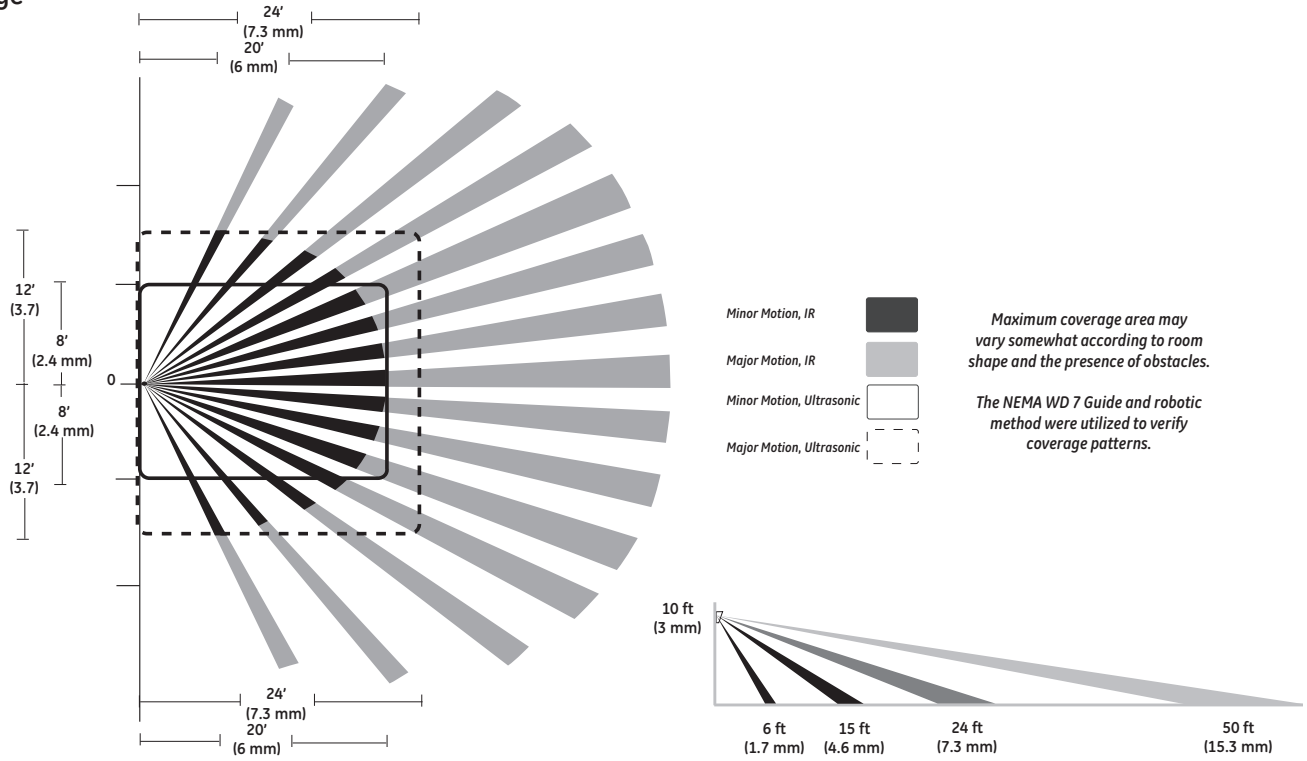


RoHS

SENSOR WIRE LEAD LEGEND	
Black	(Common)
Red	(10-30VDC)
Blue	(Control)
Yellow	(Control)
Brown	(Switch-Blue Lead Control)
Brown/White	(Switch-Yellow Lead Control)
Sensor's Isolated Relay	
Orange	(Normally Open)
Gray	(Common)
Purple	(Normally Closed)



Coverage



Settings

DIP Switch Legend

DIP Switch	Time Delay		Activation		PIR Sensitivity	Walk-Through Mode	LEDs	Override	Lighting Sweep	Daylighting Mode	
	1	2	Power Pack One	Power Pack Two							
Auto*	▼	▲	Auto	Auto	Full	Disable	Enable	Disable	Disable	Half	
5 Minutes	▼	▲	Manual	Manual	50%	Enable	Disable	Enable	Enable	Full	
15 Minutes	▲	▼	(-D model only)								
30 Minutes	▲	▲	(-D model only)								

*Self-Adjusts to 10 min. user mode

Default =

