ENERGY CODE–COMPLIANT SOLUTIONS THAT MAKE

PERFECT SENSE

legrand®

OFFICES | CONFERENCE ROOMS | RESTROOMS | LUNCH/BREAK ROOMS | UTILITY/STORAGE ROOMS | CLASSROOMS

FROM THE WORLD'S FIRST GFCI RECEPTACLE TO OUR GAME-CHANGING LINE OF PASS & SEYMOUR® PLUGTAIL™ DEVICES, PASS & SEYMOUR PRODUCTS HAVE A REPUTATION FOR INNOVATION AND RELIABILITY THAT SPANS OVER 120 YEARS. TODAY, PASS & SEYMOUR PRODUCTS ARE SYNONYMOUS WITH QUALITY, AND RECOGNIZED AS THE NAME TO TURN TO FOR RELIABLE ELECTRICAL WIRING DEVICE SOLUTIONS THAT WORK. IT'S A REPUTATION WE'RE PROUD TO CONTINUE AS WE EXPAND OUR LINE OF ENERGY CODE-COMPLIANT LIGHTING CONTROL SENSORS FOR VIRTUALLY EVERY COMMERCIAL INSTALLATION.

SENSING OPPORTUNITIES
for you and your customers.

New energy code requirements and a growing demand for energy savings are making sensors a must-have for many of your commercial customers. With additional updates for all major codes on the horizon, building owners are scrambling to ensure compliance on all of their projects—from renovations to new construction.

Fortunately, the full line of Pass & Seymour® Sensor solutions are reliable and code-compliant—creating a perfect opportunity for you to build your business, and for your customers to save money through tax incentives and reduced energy use.

SENSING CHANGE: NEW COMMERCIAL ENERGY CODE REQUIREMENTS. Virtually all jurisdictions at the state, regional and local levels have or will be adopting mandatory energy codes requiring automatic lighting controls. These code provisions will include:

ASHRAE 90.1 2010
- Auto-on 50% or less or Manual-on
- Automated shutoff
- Space control
- Exterior lighting control
- Daylighting
- Receptacle control
- Commissioning

IECC 2012
- ASHRAE compliance OR:
  - Automated shutoff
  - Space control
  - Exterior lighting control
  - Light level reduction
  - Daylighting
  - Commissioning

California Title 24 2013
- Automated shutoff
- Space control
- Exterior lighting control
- Daylighting
- Receptacle control
- Commissioning

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OFFICES COME IN ALL SHAPES AND SIZES. WHILE THEY CAN VARY GREATLY FROM BUILDING TO BUILDING, THERE ARE A FEW GUIDELINES TO FOLLOW WHEN BRINGING THEM UP TO CODE.

PTWSP250

SOLUTIONS THAT MAKE PERFECT SENSE

When wall switch sensors are specified, consider our easy-to-install **PLUGTAIL™ PASSIVE INFRARED (PIR) WALL SWITCH SENSOR.**
- 180 degree PIR coverage
- Built-in light level indicator
- Adjustable sensitivity and time delays

WDT200

For small offices (up to 12' x 12') with a single occupant performing primarily stationary duties such as computer work, we recommend our **BI-LEVEL DUAL TECHNOLOGY WALL SWITCH SENSORS.** Designed to work even with obstructions, they easily replace standard toggle switches.
- Bi-level control of two loads from same box
- 1,050 sq ft coverage
- Sensitivity adjustment

CSD1000

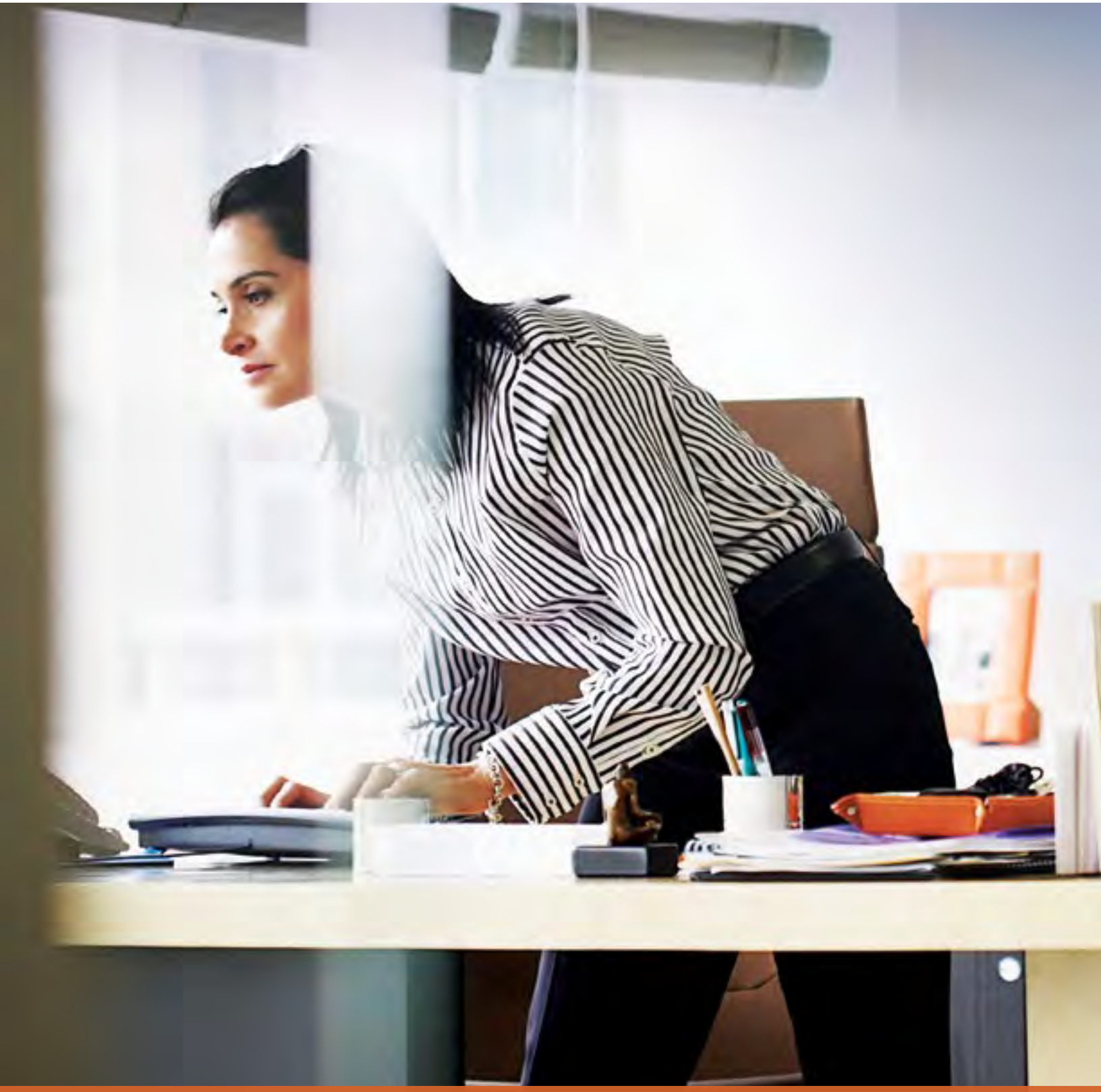
For large, spacious executive offices (18' x 15'), we recommend our **DUAL TECHNOLOGY CEILING SENSORS.** These unobtrusive devices blend into any décor and are not impacted by furniture layout.
- Adjustable sensitivity and time delay
- Motion coverage from 300 to 2,200 sq ft
- No false offs
- Multiple logic options

WA1001

For offices with suspended lighting fixtures or other potential obstructions, we recommend our **WIDE ANGLE PIR OCCUPANCY SENSOR.**
- Wall or ceiling mounting options
- Adjustable PIR sensitivity and time delays
- Motion coverage of 40' x 30'

ADDITIONAL SENSORS FOR THIS APPLICATION INCLUDE:
PIR Occupancy/Vacancy Sensor (OS300S)
PIR Occupancy/Vacancy Sensor with Neutral (WSP101)
Bi-Level PIR Occupancy/Vacancy Sensor (OSR300S)
Bi-Level PIR Occupancy/Vacancy Sensor with Neutral (WSP201)
PIR Occupancy Sensor (WSP250)
PIR Ceiling Sensor (CS500)

OFFICES



CONFERENCE ROOMS

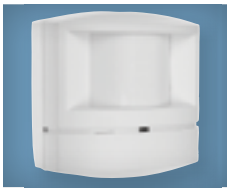
CONFERENCE ROOMS ARE DESIGNED IN A RANGE OF SIZES AND SERVE A VARIETY OF PURPOSES—FROM MEETINGS TO TRAINING TO INFORMAL GATHERINGS. THESE ROOMS TYPICALLY HAVE TWO LIGHTING ZONES—ONE FOR GENERAL LIGHTING AND ONE FOR FRONT-END LIGHTING—AND MAY HAVE MULTIPLE ENTRANCES.

CSD1000

SOLUTIONS THAT MAKE PERFECT SENSE

In general, ceiling sensors are the most effective option for conference rooms since they have a bird's eye view of the room and are not impacted by layout or occupant location.
The **DUAL TECHNOLOGY CEILING SENSOR** fits that bill with its clean, low-profile look that blends into the décor.

- Adjustable sensitivity and time delay
- Motion coverage from 300 to 2,200 sq ft
- No false offs
- Multiple logic options



WA1001

For conference rooms with suspended lighting fixtures, or where a wide area of coverage is required, we recommend our **WIDE ANGLE PIR OCCUPANCY SENSOR.**

- Wall or ceiling mounting options
- 180 degree coverage
- Integrated light level sensor
- Adjustable time delay
- Motion coverage of 40' x 30'

OSR300S

When ceiling sensors are not a viable option, we recommend our **BI-LEVEL PIR OCCUPANCY/VACANCY SENSORS**

- Provides high immunity to RFI and EMI
- Compact design replaces traditional wall switch
- Integrated light level sensor works from 10 to 150 footcandles

ADDITIONAL SENSORS FOR THIS APPLICATION INCLUDE:
PIR Ceiling Sensor (CS500)
Dual Technology Sensor (WDT100)
Bi-Level Dual Technology Sensor (WDT200)
PIR Occupancy/Vacancy Sensor (OS300S)
PIR Occupancy/Vacancy Sensor with Neutral (WSP101)
Bi-Level PIR Occupancy/Vacancy Sensor with Neutral (WSP201)

IN VIRTUALLY EVERY COMMERCIAL INSTALL, FROM HOTELS TO SCHOOLS, OFFICE BUILDINGS TO HEALTHCARE FACILITIES, YOU WILL GENERALLY SEE TWO TYPES OF RESTROOM CONFIGURATIONS: MULTI-USER RESTROOMS WITH PARTITIONS AND SINGLE-USER RESTROOMS WITHOUT PARTITIONS.

CSU600 /1100/2200

PERFECT SENSE FOR RESTROOMS

For restrooms with one to two stalls (intermittent usage), you must choose a sensor designed with ultrasonic sensing technology. That's because the detection function extends beyond most obstacles. In nearly every instance we recommend our **ULTRA-SONIC OCCUPANCY CEILING SENSORS** for their clean design and unobtrusive appearance.

WDT100

For two enclosed stalls, an alternative installation would be to enable control of one lighting load and an exhaust fan with a **DUAL TECHNOLOGY WALL SWITCH SENSOR** instead of a standard toggle switch. If both fan and lights are on the same circuit, use a single relay model.

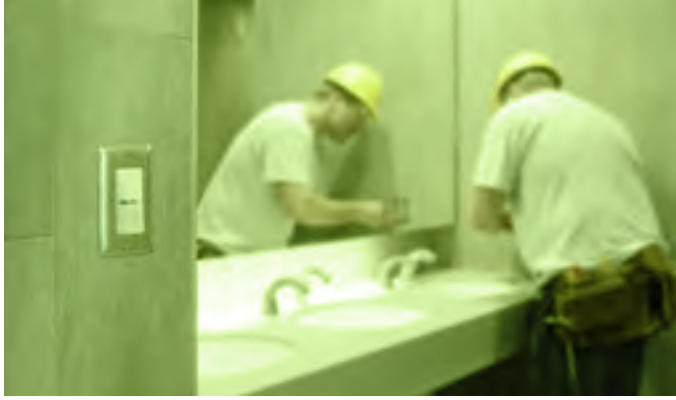
WSP250

For traditional energy-efficient on/off occupancy sensing, we highly recommend our **PASSIVE INFRARED WALL SWITCH SENSORS.** These dependable devices not only sense movement, but detect natural light levels so they only turn on when needed.

- 180 degree coverage
- Adjustable time delay and sensitivity
- Saves up to 60% on energy use

ADDITIONAL SENSORS FOR THIS APPLICATION INCLUDE:
PIR Occupancy/Vacancy Sensor (OS300S)
PIR Occupancy/Vacancy Sensor with Neutral (WSP101)
Bi-Level PIR Occupancy/Vacancy Sensor with Neutral (WSP201)
Dual Technology Sensor (WDT200)
PlugTail™ PIR Occupancy Sensor (PTWSP250)
Dual Technology Ceiling Sensor (CSD1000/1000LV)

RESTROOMS



LUNCH/ BREAK ROOMS

WITH LARGER CONTROLLABLE LOADS AND INTERMITTENT OCCUPANCY PATTERNS, LUNCH AND BREAK ROOMS ARE A GREAT PLACE FOR YOUR CUSTOMERS TO ELIMINATE UNNECESSARY LIGHTING AND SEE MEASUREABLE ENERGY SAVINGS.

WDT200

PERFECT SENSE FOR LUNCH/BREAK ROOMS

DUAL TECHNOLOGY SENSORS at each doorway permit multi-location lighting control for one or two loads.
- Eliminates false triggers and provides immunity to RFI and EMI
- Zero crossing for long relay life
- Auto adjustable time delays

CS500

CEILING SENSORS are also a good option for lunch and break rooms since they're unobtrusive, have a bird's eye view and are not impacted by layout or occupant location.
- Adjustable sensitivity and time delay
- Motion coverage from 300 to 2,200 sq ft
- No false offs
- Multiple logic options

OSR300S

In instances where ceiling sensors can't be installed, we recommend one of our **WALL SWITCH OCCUPANCY SENSORS:**
- Easily detect small and large movements
- 180 degree sensing
- Built-in feature that keeps device off when there's enough natural light
- Multi-way sensor for rooms with more than one entrance

ADDITIONAL SENSORS FOR THIS APPLICATION INCLUDE:
Wide Angle PIR Occupancy Sensor (WA1001)
PIR Occupancy/Vacancy Sensor (OS300S)
PIR Occupancy/Vacancy Sensor with Neutral (WSP101)
Bi-Level PIR Occupancy/Vacancy Sensor with Neutral (WSP201)
Bi-Level Dual Technology Sensor (WDT200)
Dual Technology Sensor (WDT100)

SINCE UTILITY AND STORAGE ROOMS ARE TYPICALLY USED ONLY FOR BRIEF PERIODS THROUGHOUT THE DAY, WE RECOMMEND CHOOSING ONE OF THESE TWO SIMPLE SENSOR INSTALLATION OPTIONS.

RT12

RT1

PERFECT SENSE FOR UTILITY/STORAGE ROOMS

Instead of installing a traditional toggle switch, go with a **DIGITAL TIMER WALL SWITCH.** It provides convenient pushbutton control to turn lights on for the brief intervals when lighting is required.

WDT100

If your customer prefers turning lights on and off automatically, install a **DUAL TECHNOLOGY WALL SWITCH SENSOR.** Its high sensitivity to small and large movements, aesthetically pleasing design, and variety of control features make it a convenient, reliable option.

ADDITIONAL SENSORS FOR THIS APPLICATION INCLUDE:
Ultrasonic Occupancy Sensor (CSU600)
Bi-Level Dual Technology Sensor (WDT200)

UTILITY/ STORAGE ROOM

CLASSROOMS

LIKE LIBRARIES AND READING ROOMS, CLASSROOMS ARE DEFINED AS ROOMS WITH LITTLE OR INTERMITTENT MOTION FOR EXTENDED PERIODS OF TIME. TYPICALLY, SENSORS SHOULD BE INSTALLED NEAR THE TEACHER'S DESK IN ORDER TO DETECT MOTION WHEN CLASS IS NOT IN SESSION AND THE TEACHER IS WORKING.

OSR300S

PERFECT SENSE FOR CLASSROOMS

For classrooms of every size, we recommend installing an **OCCUPANCY/VACANCY WALL SWITCH SENSOR** near the teacher's desk in order to detect motion when class is not in session and the teacher is working.

- Provides high immunity to RFI and EMI
- Compact design replaces traditional wall switch
- Integrated light level sensor works from 10 to 150 foot candles

CSD1000

For large classrooms with minimal obstructions, we recommend our **DUAL TECHNOLOGY CEILING SENSOR.**

- Adjustable sensitivity and time delay
- Motion coverage from 300 to 2,200 sq ft
- No false offs
- Multiple logic options

WA1001

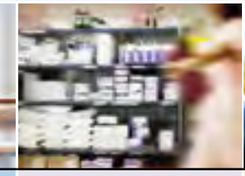
For classrooms with hanging light fixtures or other objects, we suggest installing our **WIDE ANGLE PIR OCCUPANCY CEILING SENSOR.**

- Adjustable PIR sensitivity
- Adjustable time delay of 15 sec – 30 minutes
- Motion coverage from 300 to 1,200 sq ft

ADDITIONAL SENSORS FOR THIS APPLICATION INCLUDE:

PIR Ceiling Sensor (CS1200)
PIR Occupancy/Vacancy Sensor (OS300S)
PIR Occupancy/Vacancy Sensor with Neutral (WSP101)
Bi-Level PIR Occupancy/Vacancy Sensor with Neutral (WSP201)
Dual Technology Sensor (WDT100)
Bi-Level Dual Technology Sensor (WDT200)

USE THIS HANDY CHART TO IDENTIFY THE P&S SENSORS THAT MAKE PERFECT SENSE FOR YOUR COMMERCIAL INSTALLATIONS.



	Product	Coverage	OFFICES	CONFERENCE ROOMS	RESTROOMS	LUNCH/ BREAK ROOM	UTILITY/ STORAGE ROOM	CLASSROOMS	UNIQUE AREAS
CEILING MOUNT	PIR Ceiling Sensor*	360°, up to 500 sq ft	CS500	CS500		CS500			CS500
	PIR Ceiling Sensor*	360°, up to 1,200 sq ft	CS1200					CS1200	
	PIR Ceiling Sensor	360°, up to 1,200 sq ft	CS1200LV					CS1200LV	
	Ultrasonic Occupancy Sensor*	360°, 500 sq ft one sided			CSU600		CSU600		
	Ultrasonic Occupancy Sensor*	360°, 1,100 sq ft two sided			CSU1100		CSU1100		
	Ultrasonic Occupancy Sensor*	360°, 2,200 sq ft two sided			CSU2200		CSU2200		
	Dual Technology Sensor*	360°, up to 1,000 sq ft	CSD1000	CSD1000	CSD1000			CSD1000	
	Dual Technology Sensor	360°, up to 1,000 sq ft	CSD1000LV	CSD1000LV	CSD1000LV			CSD1000LV	
CEILING OR WALL MOUNT	Long Range PIR Occupancy Sensor*	Up to 90 linear ft							HS1001
	Wide Angle PIR Occupancy Sensor*	Up to 1,200 sq ft	WA1001	WA1001		WA1001		WA1001	WA1001
WALL MOUNT	PIR Occupancy/Vacancy Sensor with Neutral	Major Coverage: 35' x 30'; Minor Coverage: 20' x 15'	WSP101	WSP101	WSP101	WSP101		WSP101	WSP101
	Bi-Level PIR Occupancy/ Vacancy Sensor with Neutral	Major Coverage: 35' x 30'; Minor Coverage: 20' x 15'	WSP201	WSP201	WSP201	WSP201		WSP201	WSP201
	PIR Occupancy Sensor	Major Coverage: 900 sq ft; Minor Coverage: 300 sq ft	WSP250		WSP250				
	PlugTail™ PIR Occupancy Sensor	Major Coverage: 900 sq ft; Minor Coverage: 300 sq ft	PTWSP250		PTWSP250				
	PIR Occupancy/ Vacancy Sensor	Major Coverage: 1,050 sq ft; Minor Coverage: 300 sq ft	OS300S	OS300S	OS300S	OS300S		OS300S	OS300S
	Bi-Level PIR Occupancy/ Vacancy Sensor	Major Coverage: 1,050 sq ft; Minor Coverage: 300 sq ft	OSR300S	OSR300S	OSR300S	OSR300S		OSR300S	OSR300S
	Dual Technology Sensor	1,050 sq ft	WDT100	WDT100	WDT100	WDT100	WDT100	WDT100	WDT100
	Bi-Level Dual Technology Sensor	1,050 sq ft	WDT200	WDT200	WDT200	WDT200	WDT200	WDT200	WDT200
	PIR Sensor with Interchangeable Face	600 sq ft	RW600BTC						
	PIR Sensor Dimmer with Neutral	600 sq ft	RWDU500					RWDU500	
	3-Way PIR Occupancy/ Vacancy Sensor	600 sq ft	RW3U600	RW3U600					
	3-Way PIR Occupancy/ Vacancy Sensor**	600 sq ft	RW3U603	RW3U603					
FIXTURE MOUNT	High Bay Dry Location Sensor	60 ft. x 20 ft. @ 40 ft. mounting height							PSHB120277L1
		40 ft. diameter @ 20 ft. mounting height							PSHB120277L2
		60 ft. diameter @ 60 ft. mounting height							PSHB120277L3
	High Bay Wet Location Sensor	40 ft. diameter @ 20 ft. mounting height							PSHB120277WL2
		60 ft. diameter @ 60 ft. mounting height							PSHB120277WL3

*Requires Power Pack **California Title 24 compliant

For additional information, go to www.legrand.us/PassandSeymour.

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