

Passive Infrared (PIR) Technology 🚝

- Designed to detect motion from a heat-emitting source (such as a person entering a room) within its field-of-view and automatically switch lights ON and OFF.
- PIR sensors are considered line-of-sight sensors, meaning that the sensor must be able to have a direct line-of-sight to the person making the motion.



Ultrasonic (US) Technology >)))

- Ultrasonic sensors use the Doppler Principle. These sensors produce low intensity, inaudible sound an detect changes in sound waves caused by motion.
- They are volumetric in nature and therefore not line-of-sight dependent.
- They are much more sensitive to smaller motions.

Dual Technology 🌾 刘

- Dual Technology is the combination of PIR and Ultrasonic into one sensor and is the ultimate sensing solution available today.
- This pairing helps to eliminate false activations (both ON and OFF) thus saving additional energy use.
- Dual Technology sensors ensure the greatest sensitivity and coverage for tough applications without the threat of false triggers.

Daylighting

When enabled, the Daylighting feature (-R/MV/DMV Units only) prevents lights from turning ON when the room is adequately illuminated by natural light.

- Full Logic Mode (-R Units Only) should the ambient light level exceed the preset foot-candle level, the lights turn OFF. The lights will remain OFF until the ambient light level falls below the set point.
- Half Logic Mode If the amount of natural light available rises above the setpoint, the daylight sensor will not turn the lights OFF wile occupancy is being detected.

Surge Protection

• The device can withstand surges up to 6KV without getting damaged, resulting in longer lifespan.

Color Change Kits

Color change kits come with three interchangeable color faceplates. This allows the device color to be changed in the field, offering design flexibility within one product.







Halo Halo Commercial Invue io Iris Lumark Lumière McGraw-Edison Metalux MWS Neo-Ray Portfolio RSA Shaper Streetworks Sure-Lites

Lighting Brands

Ametrix

AtLite

Corelite

Ephesus

Fail-Safe





F: 905-501-3172



Controls Brands

Greengate Fifth Light

Connected Lighting Systems HALO Home WaveLinx

IoT Platforms

Trellix

Wallbox Lighting Controls Cooper Lighting Solutions

Greengate



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Publication No. BR503080EN

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March 2021

Product availability, specifications, and compliances are subject to change without notice.



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Energy costs and consumption continue to rise in the United States. Today, many energy codes and energy policies either require or incentivize the use of energy efficient lighting controls on commercial projects.

NOTE: This document is intended to provide a brief overview and design professionals should consult the appropriate standards documentation, and authority having jurisdiction, for project-specific requirements and interpretation

ANSI/ASHRAE/IES Standard 90.1-2016

Commonly known as ASHRAE 90.1, this standard is recognized by the U.S. Department of Energy (DOE) as the national energy reference standard. This code significantly fine-tunes the design requirements for code-compliant lighting controls systems, mechanical systems, and the building envelope.

International Energy Conservation Code (IECC) 2015

This standard establishes minimum energy efficiency requirements for new and renovated buildings. ASHRAE 90.1 is recognized by the DOE as the national reference standard; however IECC is adopted by many states.

California Title 24

These are California's Building Energy Efficiency Standards for new construction of, and additions and alterations to, residential and nonresidential buildings.

	Energy Code Section										
Top Energy Code Requirements	ASHRAE 90.1 (2016)	IECC (2015)	Title 24 (2016)								
Local Control	9.4.1(a)	C405.2.2.3	130.1(a), (b)								
Manual ON	9.4.1.1(b)	C405.2.2.3	130.1(a), (b)								
Partial Automatic ON	9.4.1.1(c)	C405.2.1.1	130.1(b)								
Multi/Bi-Level Lighting	9.4.1.1(d)		130.1(a)								
Daylighting Side Lighting	9.4.1.1(e)	C405.2.3.2	130.1(d)								
Daylighting Top Lighting	9.4.1.1(f)	C405.2.3.1	130.1(d)								
Automatic Partial OFF	9.4.1.1(g)	C405.2.1.2	130.1(c).6								
Automatic Full OFF	9.4.11.1(h)	C405.2.1.1	130.1(c).5								

Local Control

The lights can be turned ON/OFF locally

Manual ON

The lights can be turned ON only through manual operation; auto-ON is restricted

Partial Automatic ON

The lights can be turned ON automatically, when occupancy is sensed, only at a power level less than or equal to 50%

Multi/Bi-Level Lighting

At least one control step is provided between 30% and 70% power levels

Daylighting Side/Top Lighting

Electric lighting is controlled when side/top daylight is available

Automatic Partial OFF

The light level will be reduced, when no occupancy is detected over a period

Automatic Full OFF

The lights will turn OFF, when no occupancy is detected over a period

	WALLBOX SENSORS									0-10V DIMMER SENSOR									
	OSW-P-0801-120-*	OSW-P-1001-MV-*	ONW-P-1001-MV-*	ONW-P-1001-DMV-*	ONW-P-1001-347-*	ONW-P-1001-D347-*	ONW-P-1001-SP-*	ONW-P-1001-RR7-*	VNLW-P-1001-MV-N-*	OSW-U-0721-MV-*	ONW-D-1001-MV-*	ONW-D-1001-347-*	ONW-D-1001-DMV-*	ONW-D-1001-DMV-N*	ONW-D-1001-MV-N-*	ONW-D-1001-SP-*	ONW-D-1001-RR7-*	OSW-P-010-*	OSW-D-010-*
AESTHETICS					*		*	*	*	÷÷		*)				*			
Vacancy Version	VSW-P- 0801-120-*		VNW-P-1001- MV-*	VNW-P-1001- DMV-*							VNW-D-1001- MV-*		VNW-D-1001- DMV-*					VSW-P-010-*	VSW-D-010-*
Technology					Passive Infrare	ed				Ultrasonic	DualTechnology							Passive Infrared	DualTechnology
Coverage (Sq. ft)	800				10	000				720	1000							1000	
Input Voltage	120V	120/277V	120	/277V	34	47V	10-30VDC	24VAC		120/277V	1	347V 120/277V 10-30VDC 24VAC					24VAC	120/277V	
Switchpack/Power Pack			1				Required	RR7 Relay				1	1			Required	RR7 Relay		
Photocell					Included										Inclu	ded	1		
BAS/HVAC Relay							Inclu	uded			_					Incl	uded	Included	
Colors				W, V, L	A, G, B				W, V	/, LA	W, V, LA, G, BK								B, G, LA, V, W, R
3-Way on Single Pole			3-1	Way			Singl	e Pole		3-Way Single Pole						Single Pole	3-Way		
Neutral									Required								Required		
Special Feature				Dual Relay		Dual Relay			Night Light	Dual Relay Dual Relay							Isolated Relay		
Other Info		Light Icon, EcoMeter									Surge Protected								
APPLICATIONS											1			<u> </u>					
Closet/Utility	↓	✓		✓	~		~	~	~	✓	↓	~	✓	✓	✓	↓	→	✓	✓
Computer Room							~	~	~	~	✓	~	✓	✓	~	~	✓		~
Storage Room	✓	~	~	~	✓		~	~	~	~	~	~	~	~	~	✓	¥	~	~
Hallway						~	~	~	~	~	~	~	~	~	~	~	~		~
Private Office	✓	~	~	✓	✓	✓	~	~	~	~	~	~	~	~	~	✓	~	~	~
Conference Room	✓	~	~	✓	~	✓	~	~	~	¥	~	~	✓	~	~	~	~	¥	~
Partitioned Restroom						✓	✓ ✓	✓	~	v	✓	✓	✓	✓	~	•	✓		~
Non-Partitioned Restroom Vending Room	✓	✓	✓ · · · · ·	✓	¥	✓ ✓	✓ ✓	✓ ✓	✓ 	✓	✓	✓ · · · · ·	✓ · · · · · · · · · · · · · · · · · · ·	✓ ✓	✓ · · · · · · · · · · · · · · · · · · ·	✓	✓ ✓	•	·
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	~	✓	✓	✓	✓	✓	✓	✓

AESTHETICS

Technology
Low-End Trimming
High-End Trimming
Input Voltage
Rapid Start
LED/CFL Wattage
INC/HAL/FLR Wattage
Colors
3-Way or Single Pole
Neutral
Special Feature
Other Info
APPLICATIONS
Classroom
Computer Room
Warehouse
Hallway

Private Office

Banquet Hall

Hotel Lobby

Restaurant

Cafeteria

Conference Room

