POWER YOUR ENERGY EFFICIENCY PROGRAMS

with proven lighting controls

Llegrand®

HOW TO USE THIS GUIDE

Legrand's popular stand-alone lighting controls offer proven performance for virtually every commercial application space. You can rely on us to help solve energy code compliance issues easily and cost effectively with Wattstopper Lighting Controls.

This guide will help you choose the correct lighting control device for your next lighting project.

We have also included some of the most common commercial spaces and highlighted them in this guide for quicker identification.

Step 1 Choose the correct voltage

Step 2 Choose the appropriate device placement

Step 3 Choose the technology

Step 4 Choose the right coverage pattern

Step 5 Choose the right color

LEGENDS

VOLTAGE

120V		347V	
230V		480V	
240V		24VPP = Power Pack Required	
277V			

TECHNOLOGY

Passive Infrared	Dual Technology
Ultrasonic	

NEUTRAL

Required
Optional

COVERAGE PATTERN

360° Coverage
120° Coverage
90° Coverage
45° Coverage

APPLICATION

PO-Private Office
MUR-Multi-use & Residential
CR-Conference Rooms
OO-Open Offices
HS-Hallways & Stairs
R-Private Restrooms
PR-Large Partitioned Restrooms
LBR-Lunch & Break Rooms
SR-Utility & Storage Rooms
EX-Exteriors

PLATE COLOR

White		Black
Almond		Grey
Light Almond		Brown
Ivory		Red

It's easy to choose the right sensor technology.

PIR

Passive Infrared technology detects heat emitted from a human body in motion and relies on a clear line of sight.

Ideal for:
- Small offices
- Conference rooms

Ultrasonic

Ultrasonic technology detects occupant movement within a room and has the ability to detect movement around partitions.

Ideal for:
- Large restrooms
- Hallways
- Open offices

Dual Technology

Combines PIR and Ultrasonic technology for hard to sense spaces when maximized sensitivity is required.

Ideal for:
- Executive offices
- Large conference rooms
- Classrooms

STAND-ALONE LIGHTING CONTROLS

WALL SWITCH SENSORS

CATALOG #	TECH	VOLTAGE				UNIQUE FEATURES	COVERAGE	NEUTRAL	APPLICATIONS								COLORS
		120V	277V	347V	24VPP				PO	MUR	CR	HS	R	PR	LBR	SR	
VACANCY SENSOR MANUAL-ON/AUTOMATIC-OFF																	
CS-50	●	△				Field Customizable	600 ft²		●	●			●		●		
CS-350-N	●	△				Dual Relay, Nightlight	600 ft²	■	●	●		●	●				
CH-250	●	△				Multi-Way	600 ft²	■	●	●			●				
CD-250	●	△				25-500W Incandescent, Multi-way, Dimming	600 ft²	■	●								
CU-250	●	△				Multi-Way	600 ft²	■				●	●	●		●	
RRW600VTC	●	△				Vacancy Sensor, Interchangeable Face Plates, 180° Coverage	300 ft²		●	●			●				
OCCUPANCY/VACANCY SENSOR MANUAL-ON OR AUTOMATIC-ON/AUTOMATIC-OFF																	
RS-150BA-N	●	△				Nightlight, 30-min. Time Delay	600 ft²	■		●			●				
PW-100	●	△	△		△	Light Level Sensor, Low voltage 24V model requires Power Pack (PW-100-24)	1050 ft²		●		●		●		●	●	
PW-100D[1]	●	△	△			Light Level Sensor, up to 600W @ 120V or 1200W @ 277V, Incandescent or 2-wire Fluorescent, Dimmer	1050 ft²		●	●	●						
PW-103N	●	△	△			Nightlight, Multi-Way, Light Level Sensor	1050 ft²	■	●	●	●	●	●		●		
PW-101D[1]	●	△				Light Level Sensor, up to 600W @ 120V or 1200W @ 277V, Incandescent Magnetic Low Voltage, Electronic Low Voltage or 2-wire Fluorescent, Dimmer	1050 ft²	■	●	●							
PW-301[1]	●	△	△	△		Light Level Sensor, Multi-Way, Optional Neutral	1050 ft²	◪	●	●			●	●	●		
PW-302[1]	●	△	△	△		Dual Relay, Light Level Sensor, Multi-Way, Optional Neutral	1050 ft²	◪	●		●		●	●			
PW-311[1]	●	△	△	△		Partial-On Option, Light Level Sensor, Multi-Way, Optional Neutral, 0-10V Dimmer	1050 ft²	◪	●	●	●			●			
WS-301[1]	●	△	△	△		Light Level Sensor, Optional Neutral, Built-in Light Level Sensor	900 ft²	◪	●	●		●		●			
UW-100	●	△	△	△		Light Level Sensor	400 ft²	■	●			●	●	●	●		
UW-200	●	△	△			Dual Relay, Light Level Sensor	400 ft²	■	●			●	●	●	●		
DW-100	◐	△	△	△	△	Light Level Sensor, Selectable Trigger Mode, Low Voltage 24V requires Power Pack (DW-100-24)	1050 ft²		●		●			●	●		
DW-311	◐	△	△	△		Partial-On Option, Light Level Sensor, Multi-Way, Selectable Trigger Mode, 0-10V Dimmer	1050 ft²	■	●	●	●			●			
DSW-301[1]	◐	△	△	△		Light Level Sensor, Multi-Way, Selectable Trigger Mode, Optional Neutral	1050 ft²	◪	●		●		●	●			
DSW-302[1]	◐	△	△	△		Dual Relay, Light Level Sensor, Multi-Way, Selectable Trigger Mode, Optional Neutral	1050 ft²	◪	●		●		●	●	●		
RRW600UTC	●	△				Interchangebale Face Plates, 180° Coverage	300 ft²		●	●			●				

Product images (left margin): CS-50, CS-350-N, CH-250, CD-250, CU-250, RS-150BA-N, PW-100-24 / PW-301, PW-103N, PW-100D / PW-101D, WS-301, PW-302, PW-311 / PW-311-347, UW-100 / UW-100-24, UW-200, DW-100-24 / DSW-301, DSW-302

CEILING SENSORS

	CATALOG #	TECH	VOLTAGE 120V	230V	277V	347V	24VPP	CURRENT	POWER PACK RED.	UNIQUE FEATURES	COVERAGE PATTERN	COVERAGE	PO	CR	OO	HS	R	PR	SR
	CI-24	●					▲	37mA	■	Low Profile, Isolated Relay	●	1200 ft²	●	●	●		●		
	CI-24-1	●					▲	37mA	■	Low Profile, Isolated Relay	●	500 ft²	●	●	●		●		
	CI-200	●					▲	20mA	■	Low Profile, Isolated Relay, Built-In Light Level	●	1200 ft²	●	●	●		●		
	CI-200-1	●					▲	20mA	■	Low Profile, Isolated Relay, Built-In Light Level	●	500 ft²	●	●	●	●	●		
	CI-205	●					▲	11mA	■	Low Profile	●	1200 ft²	●	●	●		●		
	CI-205-1	●					▲	11mA	■	Low Profile	●	500 ft²	●	●	●	●	●		
	CI-300	●					▲	20 mA	■	Isolated Relay, Built-In Light Level, Plug Terminal Wiring	●	1200 ft²	●	●	●		●		
	CI-300-1	●					▲	20mA	■	Isolated Relay, Built-In Light Level, Plug Terminal Wiring	●	500 ft²	●	●	●	●	●		
	CI-305	●					▲	9 mA	■	Plug Terminal Wiring	●	1200 ft²	●	●	●		●		
	CI-305-1	●					▲	9 mA	■	Plug Terminal Wiring	●	500 ft²	●	●	●	●	●		
	CI-355	●	▲	▲	▲	▲				Line Voltage, No Power Pack Required	●		●	●	●		●		
	W-500A[1]	●					▲	16mA	■		●	500 ft²				●		●	
	W-1000A[1]	●					▲	16mA	■		●	1000 ft²				●		●	
	W-2000A[1]	●					▲	16mA	■		●	2000 ft²				●		●	
	W-2000H[1]	●					▲	16mA	■		●	90 linear ft				●		●	
	WT-600	●					▲	37mA	■	Isolated Relay, 180° Coverage Pattern	●	600 ft²				●		●	
	WT-1100	●					▲	40mA	■	Isolated Relay	●	1100 ft²				●		●	
	WT-2200	●					▲	40mA	■	Isolated Relay	●	2200 ft²				●		●	
	WT-2250	●					▲	40mA	■	Isolated Relay	●	90 linear ft				●		●	
	UT-300-1[1]	●					▲	40mA	■	Isolated Relay, Plug Terminal Wiring	●	500 ft²				●		●	
	UT-300-2[1]	●					▲	40mA	■	Isolated Relay, Plug Terminal Wiring	●	1000 ft²				●		●	
	UT-300-3[1]	●					▲	45mA	■	Isolated Relay, Plug Terminal Wiring	●	2000 ft²				●		●	
	UT-305-1	●					▲	30mA	■	Plug Terminal Wiring	●	500 ft²				●		●	
	UT-305-2	●					▲	30mA	■	Plug Terminal Wiring	●	1000 ft²				●		●	
	UT-305-3	●					▲	35mA	■	Plug Terminal Wiring	●	2000 ft²				●		●	
	UT-355-1[1]	●	▲	▲	▲	▲				Line Voltage, No Power Pack Required	●	500 ft²				●		●	
	UT-355-2[1]	●	▲	▲	▲	▲				Line Voltage, No Power Pack Required	●	1000 ft²				●		●	
	UT-355-3[1]	●	▲	▲	▲	▲				Line Voltage, No Power Pack Required	●	2000 ft²				●		●	
	DT-300[1]	◓					▲	25mA (DC) / 74mA (AC)	■	Isolated Relay, Light Level, Plug Terminal Wiring	●	1000 ft²		●	●			●	●
	DT-305[1]	◓					▲	16mA (DC) / 69mA (AC)	■	Plug Terminal Wiring	●	1000 ft²		●	●			●	●
	DT-355[1]	◓	▲	▲	▲	▲				Line Voltage, No Power Pack Required	●	1000 ft²	●	●	●			●	●
	WPIR	●					▲		■	Wall Mount	◔	up to 45 ft				●			

CEILING SENSORS

	CATALOG #	TECH	VOLTAGE 120V	230V	277V	347V	24VPP	CURRENT	POWER PACK RED.	UNIQUE FEATURES	COVERAGE PATTERN	COVERAGE	PO	CR	OO	HS	R	PR	SR
CX-100/105	CX-100	●					▲		■	Wall Mount	◔	200 ft²				●			
	CX-100-1	●					▲	19mA	■	Isolated Relay, Light Level, Wall Mount	◔	90 linear ft				●			
	CX-100-3	●					▲	19mA	■	Isolated Relay, Light Level, Wall Mount	◔	120 linear ft				●			
	CX-100-4	●					▲	19mA	■	Isolated Relay, Light Level, Wall Mount	◔	50 linear ft				●			
	CX-105[1]	●					▲	8mA	■	Wall Mount	◔	2000 ft²				●			
	CX-105-1[1]	●					▲	8mA	■	Wall Mount	◔	90 linear ft				●			
CB-100	CX-105-3[1]	●					▲	8mA	■	Wall Mount	◔	120 linear ft				●			
	CX-105-4[1]	●					▲	8mA	■	Wall Mount	◔	50 linear ft				●			
	CB-100	●					▲	20mA	■	Cold Location, Watertight Enclosure, Wall Mount	◔	2000 ft²							●
	CB-100-1	●					▲	20mA	■	Cold Location, Watertight Enclosure, Wall Mount	◔	90 linear ft							●
	CB-100-3	●					▲	20mA	■	Cold Location, Watertight Enclosure, Wall Mount	◔	120 linear ft							●
DT-200/205	DT-200[1]	◕					▲	25mA	■	Isolated Relay, Light Level, Wall Mount	◔	2000 ft²	●		●			●	●
	DT-205	◕					▲	25mA	■	Wall Mount	◔	2000 ft²	●		●			●	●
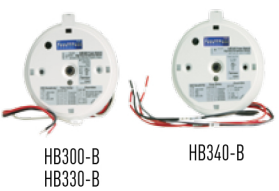
POWER PACKS & LIGHTING CONTROLS

	CATALOG #	VOLTAGE 120V	240V	277V	347V	24VPP	UNIQUE FEATURES
POWER PACKS							
BZ-50 BZ-150	BZ-50	▲	▲	▲			Automatic On/Off
BD-100E-P BD-100M	BZ-150	▲	▲	▲			Automatic or Manual On/Off, Hold-on and Hold-off inputs
	BZ-200	▲	▲	▲			Auto On/Off; rated for lighting or plug loads; load On/Off button
BZ-200 BZ-250 BZ-250-347	BZ-250	▲	▲	▲	▲		Auto or Manual On/Off, Hold-on and Hold-off inputs; rated for lighting or plug loads; load On/Off button
	BD-100E-P	▲	▲	▲			Hold-On, Hold-Off, Din Rail Mount
	S120/277/347E-P	▲		▲	▲		Aux. Relay Pack
EMERGENCY LIGHTING							
	ELCU-200	▲		▲	▲		Guarantees emergency lights stay on when power is lost, fire alarm interface
DAYLIGHTING CONTROLS							
	LS-301					▲	0-10V dimming, single zone control, closed loop daylighting control

WALL SWITCHES

	CATALOG #	VOLTAGE 24VPP	UNIQUE FEATURES	COLORS
LVSW-101 LVSW-102 LVSW-103	LVSW-101	▲	1 button Low Voltage Wall Switch	○ ○ ● ○ ○
	LVSW-102	▲	2 button Low Voltage Wall Switch	○ ○ ● ○ ○
	LVSW-103	▲	3 button Low Voltage Wall Switch	○ ○ ● ○ ○
	LVSW-104	▲	4 button Low Voltage Wall Switch	○ ○ ● ○ ○
LVSW-104 LVSW-108 DCLV2	LVSW-108	▲	8 button Low Voltage Wall Switch	○ ○ ● ○ ○
	DCLV2	▲	0-10V dimmable Wall Switch	○ ○ ● ○ ○
	RWP26		radiant screwless wall plates, available in 1 to 4 gang configuration	○ ○ ● ● ○ ○ ○ ●
	TP26		Trademaster wall plates, available in 1 to 4 gang configuration	○ ○ ● ● ○ ○ ○ ●

HIGH BAY SENSORS

	CATALOG #	TECH	120V	230V	240V	277V	347V	480V	24VPP	UNIQUE FEATURES	COVERAGE	APPLICATIONS
HIGH/LOW BAY SENSORS												
	HBP-111-L7	●	▲	▲		▲	▲			IR Remote Capability, Hold-Off Daylighting	Up to 100' diameter at 40'	Mounting from 15-40', snap-on aisleway masking included
	HBP-112-L7	●	▲	▲		▲	▲			Hold-Off Daylighting		
	HBP-202-L7-W	●							▲	0-10V Dimming, snap-on design, 15-40 foot mounting height, snap on aisleway masking	100 ft diameter, 360° coverage, or snap-on aisleway masking	
	HBP-212-L7-W	●	▲			▲						
	HBP-202-L7-W	●	▲			▲				0-10V Dimming, snap-on design, snap-on aisleway masking, indoor/outdoor rated		
	HBP-212-L7-W	●							▲			

HBP-111-L7 HBP-112-L7 HBP-202 HBP-212

*Single Phase, line to neutral

HIGH/LOW BAY ACCESSORIES		
	HBP-EM1	Extender module for mounting below fixture
	HBP-SM1	Surface mount module for mounting to bottom of fixture
	FSIR-100	Remote handheld configuration tool for HBP-111-L7
	HBP-202-L7-EM1-W	Snap on extender module
	HBP-212-L7-EM1-W	Snap on extender module

HPB-EM1 FSIR-100

HIGH BAY SENSORS	CATALOG #	TECH	120V	230V	240V	277V	347V	480V	24VPP	UNIQUE FEATURES	COVERAGE	APPLICATIONS
	HB300-B HB330-B HB340-B	●			▲	▲	▲	▲			Select lens for desired coverage	
	HB300D-B HB340D-B	●			▲	▲	▲			Daylighting		Skylit areas
	HB300W-B HB330W-B HB340W-B	●			▲	▲	▲	▲		IP65 Wet Location Rating		Indoor, outdoor and cold locations

HB300-B HB340-B HB330-B

HIGH BAY LENS OPTIONS (LENS REQUIRED)				
	HBL1	Aisleway Lens	60' linear at 40'	
	HBL3	Mid-Bay, High Density Lens	40' diameter at 20'	HBL3W for wet locations

HBL1 HBL3

HIGH BAY ACCESSORIES			
	HBEM3	Extender module for mounting below fixture	HBEM3W for wet locations

HBEM3
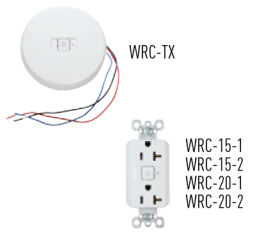
TIME BASED CONTROLS

	CATALOG #	120V	240V	277V	347V	480V	24VPP	UNIQUE FEATURES	NEUTRAL	00	HS	R	SR	EX	COLORS
TIMERS															
	RT-20	▲		▲				Preset 4 Button Countdown	■			●	●	●	○○●○
	RT-100	▲						Programmable Countdown	■			●	●	●	○○●○
	RT-200	▲						Astronomical, Dawn/Dusk Scheduling	■				●	●	○○○○●○
	TS-400 [1]	▲		▲			▲	Digital Countdown Timer		●	●				○○●○●●●●
CONTRACTOR PANELS															
	LP8 [1]*	▲	▲	▲	▲			Scheduled control for up to 8 single pole lighting circuits, compatible with LVSW switches	■						
	LC8	▲		▲				Touch screen, astronomical time clock, compatible with LVSW switches	■	●	●			●	
	LCSP-2	▲		▲				Dual single-pole relay module, two 20 Amp relays							
	LCDP-1		▲			▲		Double-pole relay module, one 20 Amp relay							

RT-20 RT-100 LP8 LCSP-2

[1]BAA compliant model available.
*Multiple voltage options available; see website for details.

PLUG LOAD CONTROL

	CATALOG #	TECH	VOLTAGE		UNIQUE FEATURES
			120V	24VPP	
WIRELESS RECEPTACLE CONTROLS (RECEPTACLES AVAILABLE IN WHITE, LIGHT ALMOND, IVORY, GREY AND BLACK)					
WRC-TX	WRC-TX	WRC controls work with any 24V Wattstopper occupancy sensor		▲	RF transmitter sends occupancy sensor status to controlled receptacles
WRC-15-1 WRC-15-2 WRC-20-1 WRC-20-2	WRC-15-1[1]		▲		15A duplex receptacle, half controlled
	WRC-15-2[1]		▲		15A duplex receptacle, fully controlled
	WRC-20-1[1]		▲		20A duplex receptacle, half controlled
	WRC-20-2[1]		▲		20A duplex receptacle, fully controlled
ISOLÉ					
IDP-3050	IDP-3050-A	●	▲		Power strip w/ Personal Sensor for automatic control of Plug Loads and 48,000A surge protection

LIGHTING CONTROL SOLUTIONS FOR ANY APPLICATION

Adding Wattstopper Lighting Controls to your next project can add significant energy savings and help add to the ROI and prolong the life of your lighting investment.

Private Offices	Multi-Use & Residential	Conference Rooms	Open Offices	Halls & Stairs	Private Restrooms	Partitioned Restrooms	Lunch & Break Rooms	Storage Rooms	Exteriors
15 to 30%	up to 50%	up to 40%	up to 30%	40 to 80%	50 to 70%	50 to 70%	15 to 30%	20 to 30%	20 to 40%

Potential Energy Savings shown in percentage.

For additional information on energy code compliance and Wattstopper design considerations please visit legrand.us/codesolutions.

designed to be better.™

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Tech Support: 800.879.8585
www.legrand.us/wattstopper