

APPLICATION GUIDE

SILVAIR

Smart Lighting Control Platform
for Indoors and Outdoors

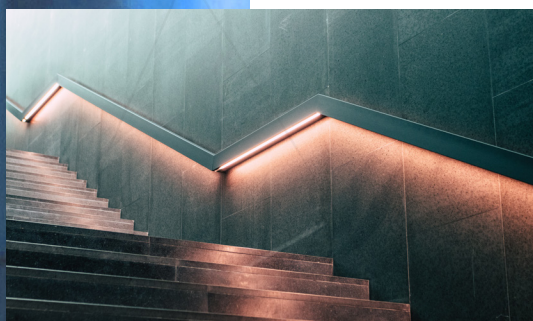
SILVAIR™

SILVAIR IS A COMPREHENSIVE AND FLEXIBLE SIG-QUALIFIED BLUETOOTH MESH LIGHTING CONTROL SOLUTION OF INTELLIGENT HARDWARE DEVICES AND SILVAIR-POWERED SOFTWARE TOOLS.

Hardware choices include a wide variety of occupancy and motion sensors, wireless switches, dimming power packs, and fixture controllers to meet customers' specific connected lighting control needs and requirements.

The control infrastructure is flexible and future-friendly for scaling beyond lighting to enable value-added IoT services:

- Code-compliant occupancy detection
- Sensor-based automation
- Manual control with wireless switches/dimmers
- Customizable daylight harvesting scenarios
- Basic to advanced lighting control scenarios
- Supports large-scale installations
- Interoperable with other Bluetooth Mesh qualified lighting devices
- No specialized training or lighting control expertise required

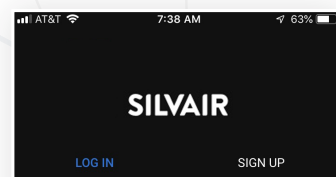




Software Tools

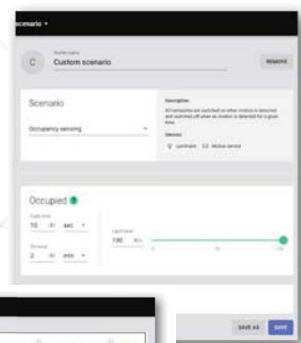
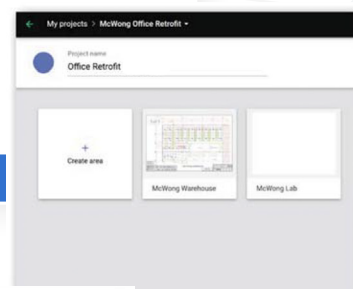
THE SILVAIR WEB PORTAL IS THE HUB OF ANY LIGHTING INSTALLATION.

Design professionals and installers in advance of an actual installation to manage lighting installation projects, plan commissioning along with mapping zones on a floor within a building, setting up control scenarios for zones and managing users collaborating on the project. The SILVAIR iOS app is the mobile tool used onsite to commission devices according to the commissioning plan set up earlier in the SILVAIR web portal. The iOS app may also serve as a freestanding commissioning tool for small projects or fine-tuning systems on the fly, offering functionality for system management, control parameters and zone grouping. SILVAIR offers a fully qualified Bluetooth Mesh stack compliant with the published SIG specification.



Email address

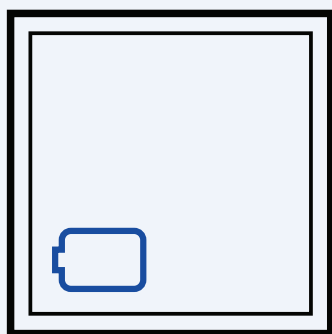
Password



Offices

A range of options to satisfy different needs, from code-compliant control solutions to cost-effective retrofit

Option 1: Code-compliant + color tuning



PSC-WCM-100-EC-BLE-SR
Fixture controller



PSC-BL-I-RD-DC0-BLE-SR
PIR-Daylight combo Sensor



PSC-DM-WS-100-BLE-SR
Dimming wall switch

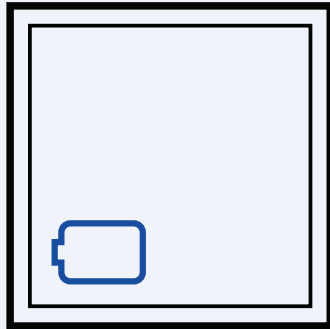
CONTROL STRATEGY

- Occupancy/Vacancy sensing
- Daylighting
- Dimming
- White color tuning

CONTROL COMPONENTS

- SILVAIR 12-24V DC Remote Head PIR Occupancy Sensor, Daylight Harvesting
- SILVAIR 120-277 volt Bluetooth Dimming Switch
- SILVAIR 12-24V DC Two Channel Controller per Fixture

Option 2: Code-compliant with dimming control



PSC-WCM-50-BLE-SR
Fixture controller



PSC-ND-I-CM-DC0-BLE-SR
PIR ceiling mount sensor



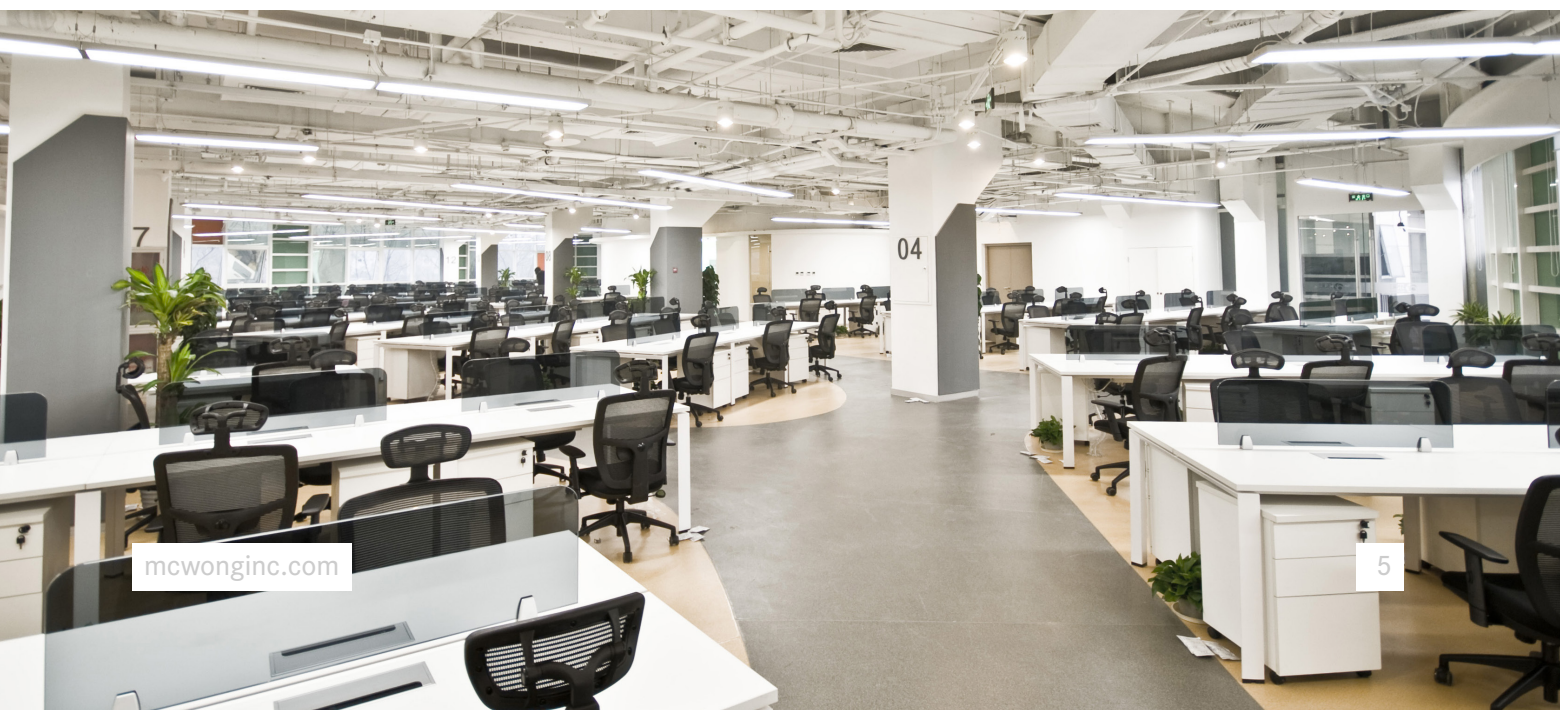
PSC-DM-WS-100-BLE-SR
Dimming wall switch

CONTROL STRATEGY

- Occupancy/Vacancy sensing
- Daylighting (as needed)
- Dimming

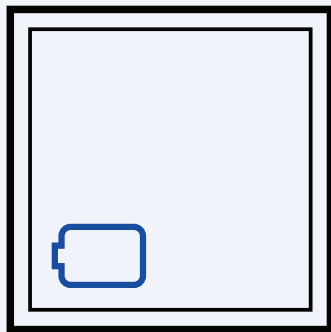
CONTROL COMPONENTS

- SILVAIR 12-24V DC Remote head PIR Occupancy & Daylight Harvesting Sensor
- SILVAIR 120-277 volt Bluetooth Dimming Switch
- SILVAIR 12-24V DC 1-Channel Fixture Controller per Fixture



Offices Continued

Option 3: Cost-effective retrofit



PSC-WCM-50-BLE-SR
1-channel fixture controller



PSC-DM-I-WS-100-BLE-SR
Dimming wall sensor switch

CONTROL STRATEGY

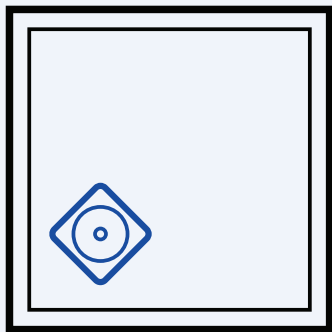
- Occupancy sensing
- Dimming

CONTROL COMPONENTS

- SILVAIR 120-277 volt Bluetooth Dimming Sensor Switch
- SILVAIR 12-24V DC 1-Channel Fixture Controller per fixture



Stairwells & Restrooms



PSC-BL-U-FM-DC0-BLE-SR
Ultrasonic sensor



PSC-DM-WS-100-BLE-SR
Dimming wall switch

CONTROL STRATEGY

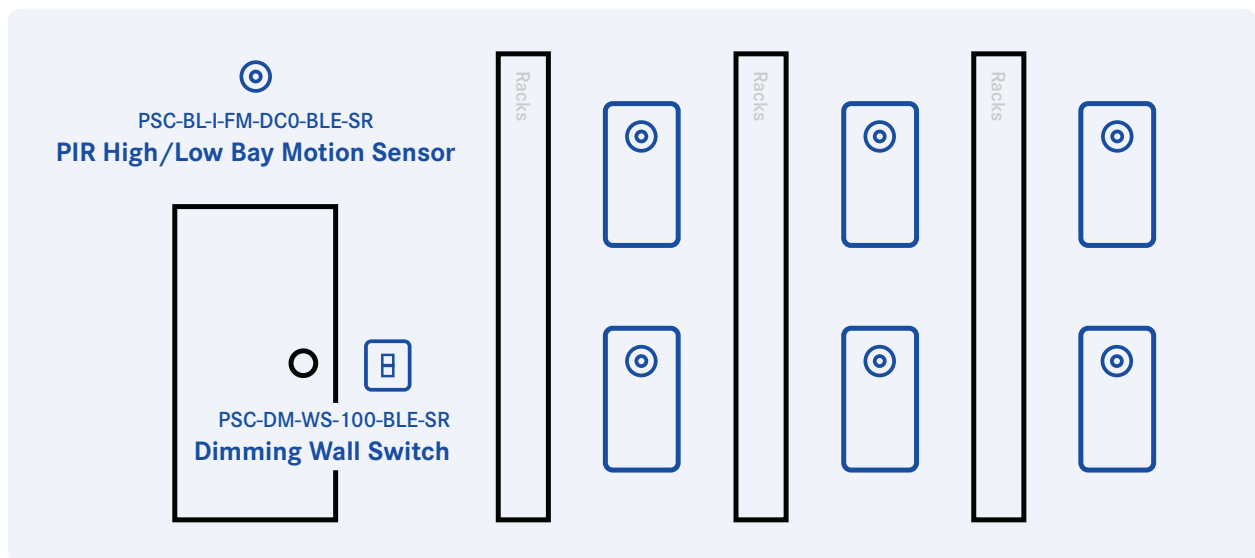
- Occupancy sensing
- Dimming

CONTROL COMPONENTS

- SILVAIR 12-24V DC Ultrasonic Occupancy Sensor Controller per Fixture
- SILVAIR 120-277 volt Bluetooth Dimming Switch



Warehouse/Industrial Spaces

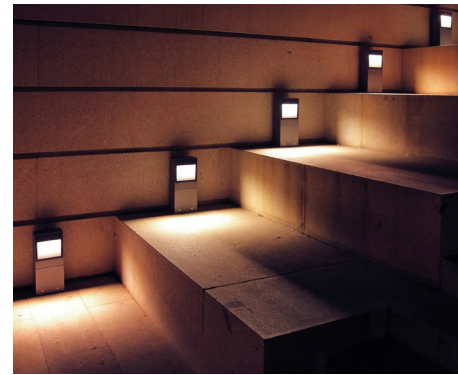


CONTROL STRATEGY

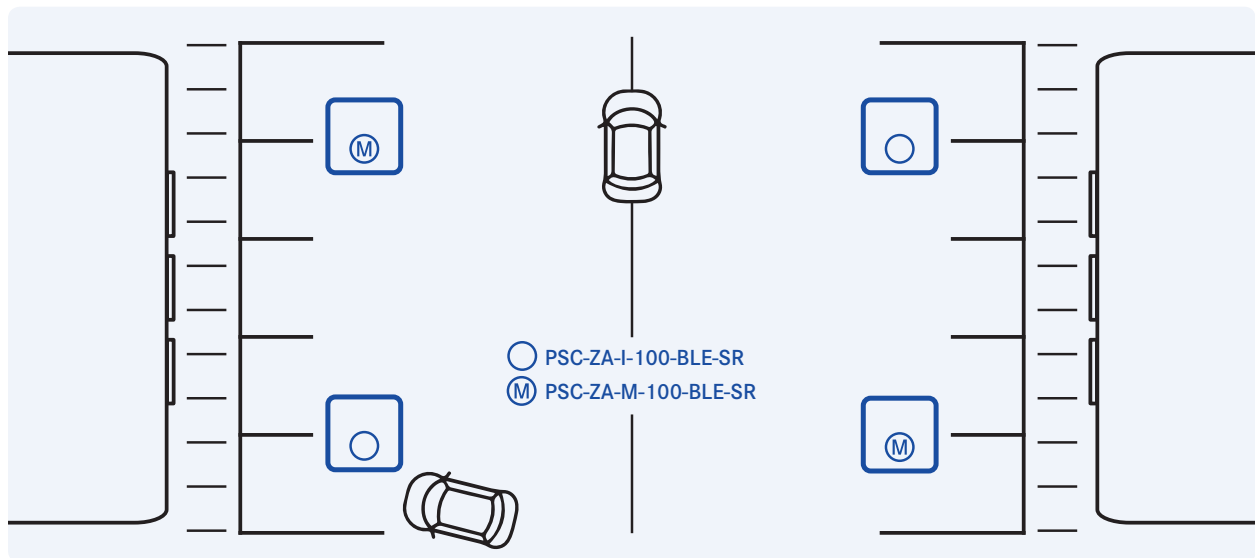
- Occupancy sensing
- Dimming

CONTROL COMPONENTS

- SILVAIR 120-277 volt Bluetooth Dimming Switch at Exits
- SILVAIR 12-24V DC Highbay PIR Occupancy Sensor Controller per Fixture



Outdoor Spaces



CONTROL STRATEGY

- Motion sensing
- Dusk-to-Dawn Photocell

CONTROL COMPONENTS

- SILVAIR Standard Low-voltage Receptacle
PIR or Microwave Motion Sensor Controller

Sensors and Controllers



PRODUCT #	DESCRIPTION	TECH	INPUT VOLTAGE	MOUNTING	INDOOR/ OUTDOOR RATED	SUGGESTED APPLICATIONS
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Fixture Mount Sensors

PSC-BL-I-FM-DC0-BLE-SR	Bi-level PIR Occupancy Sensor	P	12-24VDC	FM, CM	Indoor/Outdoor*	OC, WH, PG, AP
PSC-BL-I-FM-DC0-BLE-SR-S	Bi-level PIR Occupancy Sensor Wet Location Side Mount	P	12-24VDC	FM, CM	Outdoor	OC, WH, PG, AP
PSC-BL-I-FM-DC0-BLE-SR-B	Bi-level PIR Occupancy Sensor Wet Location Bottom Mount	P	12-24VDC	FM, CM	Outdoor	OC, WH, PG, AP
PSC-BL-I-RD-DC0-BLE-SR	Bi-level PIR Remote Mount Occupancy sensor Daylight Harvesting	P	12-24VDC	FM, CM	Indoor	OC, SP
PSC-BL-I-RT-DC0-BLE-SR	Bi-level PIR Remote Mount Occupancy sensor	P	12-24VDC	FM, CM	Indoor	OC, SP
PSC-BL-I-FM-110-BLE-SR	Bi-Level PIR Occupancy Sensor w/ Load Switch	P	120-277VAC	FM	Indoor	OC, WH, PG
PSC-ZA-I-100-SR	Plug-in Ready PIR Sensor	P	12-24VDC	ZA	Outdoor	OC, WH, PG, AP
PSC-BL-M-FM-DC0-BLE-SR	Bi-level Microwave Occupancy Sensor	M	12-24VDC	FM, CM, WM	Outdoor	OC, WH, AP
PSC-BL-M-FC-DC0-BLE-SR	Bi-level Microwave Occupancy Sensor	M	12-24VDC	FM, CM, WM	Indoor	OC, WH, AP
PSC-BL-M-RT-DC0-BLE-SR	Bi-level Microwave Remote Mount Occupancy sensor	M	12-24VDC	FM, CM, WM	Indoor	OC, PG, BD
PSC-ZA-M-100-SR	Plug-in Ready Microwave Sensor	M	12-24VDC	ZA	Outdoor	OC, WH, AP
PSC-BL-U-FM-DC0-BLE-SR	Bi-level Ultrasonic Occupancy Sensor	U	12-24VDC	FM, CM	Indoor	SP, LR, HS

Fixture Mount Controller Modules

PSC-WCM-50-DC0-BLE-SR	Wireless Fixture Controller Module		12-24VDC	FM	Indoor	SP, OC, LR, HS, WH, AP, PG, BD
PSC-WCM-60-DC0-BLE-SR	Wireless Fixture Controller Module, w/o SEN Input		12-24VDC	FM	Indoor	
PSC-ZA-100-SR	Plug-in Ready Fixture Controller Module		12-24VDC	ZA	Outdoor	
PSC-ZA-110-SR	Plug-in Ready Fixture Controller Module w/ Light Sensing		12-24VDC	ZA	Outdoor	
PSC-WCM-200-DC0-BLE-SR	HV Wireless Fixture Controller Module		18-48VDC	FM	Indoor	
PSC-WCM-200-EC-DC0-BLE-SR	HV Wireless Fixture Controller Module, dimming only		18-48VDC	FM	Indoor	
PSC-WCM-100-DC0-BLE-SR	Wireless Fixture Controller Module		12-24VDC	FM	Indoor	
PSC-WCM-100-EC-DC0-BLE-SR	Wireless Fixture Controller Module, dimming only		12-24VDC	FM	Indoor	
PSC-ZA-200-SR	Wireless Fixture Controller Module w/ 2 channels dimming		12-24VDC	ZA	Outdoor	
PSC-ZA-210-SR	Wireless Fixture Controller Module w/ 2 channels dimming and Light Sensing		12-24VDC	ZA	Outdoor	

Ceiling Mount Occupancy Sensor

PSC-ND-I-CM-DC-BLE-SR	Ceiling Mount PIR Occupancy Sensor	P	12-24VDC	CM	Indoor	OC
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Wall Switch and Wall Switch Occupancy Sensor

PSC-DM-WS-100-BLE-SR	Wireless dimmer wall switch		12-24VDC	WM	Indoor	SP, OC, LR, HS
PSC-DM-I-WS-100-BLE-SR	Wireless dimmer sensor wall switch	P	12-24VDC	WM	Indoor	SP, LR

*PSC-BL-I-FM-DC0 is outdoor use at the Sensor Collar part only. Side and Bottom Mount IP65 enclosure available for completely outdoor sensor option.

Applications

Small / Partitioned Office	SP
Open Office / Conference Room	OC
Lavatory / Rest Room	LR
Hallways / Stairwell	HS
Warehouse	WH
Area/Site Lighting / Parking Lot	AP
Parking Garage	PG
Bollard	BD

Tech

PIR	P
Ultrasonic	U
Microwave	M
Dual Technology (PIR & Ultrasonic)	D

Mounting Options

Fixture Mount	FM
Ceiling Mount	CM
Wall Mount	WM
Plug-in Ready Fixture Mount	ZA



ABOUT MCWONG

For 30+ years, McWong has produced superior lighting controls and related electrical power and protection components. Today, McWong is an innovator in Bluetooth mesh control solutions with the largest range of qualified Bluetooth mesh devices in the marketplace. With advanced design and manufacturing facilities, McWong offers extensive component choices for OEMs as well as robust solutions for contractors, ESCOs and facility managers.

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