

IECC2012 **ENERGY CODE**

APPLICATION GUIDE



SENSORWORX®



SENSORWORX®

WHO IS **SENSORWORX**?

SENSORWORX products are designed, produced, and sold by BLP Technologies, Inc. of Wallingford, Connecticut. Founded in 2017 by engineers with decades of experience in lighting controls, the team behind **SENSORWORX** has an unmatched resume of bringing high quality and innovative products to the lighting and building control marketplace. With particular expertise in occupancy sensing, the **SENSORWORX** brand is the new standard of quality and technology excellence in commercial lighting controls.

WIRED & WIRELESS **SOLUTIONS**

Traditional wired controls are the simplest and most reliable solution for many applications. However, wireless room controls are a great alternative for projects with challenging installation environments. While each solution has unique attributes, the user experience and sequence of operation they deliver should be consistent regardless.

SENSORWORX provides both wired and wireless options in our portfolio of products that all share a modern look, utilize common mounting methods, and deliver reliable performance. This ensures a consistent experience for both installers and end users.

MADE IN **AMERICA**

We take pride in our work. We have pride in our team and know that quality requires attention to detail at all levels of the manufacturing process. That is why **SENSORWORX** proudly manufactures lighting controls in the United States.





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CODE REQUIREMENT OVERVIEW

This table outlines lighting control requirements for several building spaces. If the code is not specific or complete regarding controls requirements for a certain area, the table reflects the most common and recommended control scheme.

For more detailed code requirements refer to the <https://codes.iccsafe.org/content/IECC2012>



	CODE REQUIREMENTS		CODE PROVISION #	SUMMARY
SHUT OFF CONTROLS	Occupancy Sensor Controls		C405.2.2.2	Requires lighting be controlled by an occupancy sensor.
	Time Switch Controls		C405.2.2.1 C40.2.4	Each area of the building not provided with an occupancy sensor shall be provided with time switch controls.
OCCUPANCY SENSOR FUNCTIONALITY	OFF	Full Auto-Off	C405.2.2.2	Where sensors are used, requires lighting be automatically turned off within 30 minutes of all occupants leaving the space.
		Partial Auto-Off	C405.2.2.1	When controlling areas where continuous lighting is required for safety, only reduce lights to a low level when unoccupied.
	ON	Full Auto On	C405.2.2.2	Allows lighting to be automatically turned on to full in areas where manual-on operation would endanger the safety or security of the room or building occupants.
		Partial Auto On	C405.2.2.2	Allows lighting to be automatically turned on to not more than 50% power.
		Manual On	C405.2.2.2	Allows lighting to be manually turned on.
MANUAL CONTROL	Manual Switch		C405.2.1.1	Requires a readily accessible manual control that allows occupants to turn lights off. Manual control should be located where the controlled lights are visible or shall indicate the area served and their status.
	Manual Dimming / Light Reduction		C405.2.1.2	Allows the occupant to be able to reduce the connected lighting load by at least 50% in non-daylight zones. Required if time-switch controls are utilized. Not required if daylight responsive controls are installed.
DAYLIGHT CONTROL	Primary Daylight Zone Wattage	> 150 W	C202 C405.2.2.3 C405.2.4	Daylight Responsive Controls are required as follows: • Shall be capable of complete shutoff of controlled lighting • Dim continuously from full light output to 15% of full light output or lower • Have readily accessible calibration mechanisms and can be calibrated withing the space. • All daylight zones must be controlled separately. See full code for definitions of daylight zones.
		< 150 W		Daylight responsive controls are optional but recommended



OVERVIEW

ROOM/AREA TYPES

CLASSROOMS / LECTURE / TRAINING ROOMS	CONFERENCE / MEETING ROOMS	PRIVATE OFFICES	OPEN OFFICES	RESTROOMS	HALLWAYS / CORRIDORS	LOBBY	COPY / PRINT ROOMS	STORAGE ROOMS	JANITORIAL CLOSETS	BREAKROOM / LOUNGE	STAIRWELL
PAGES 26-29	PAGES 34-35	PAGES 8-12	PAGES 22-25	PAGES 16-21	PAGES 32-33	PAGES 38-39	PAGES 14-15	PAGES 13	PAGES 13	PAGES 30-31	PAGES 36-37
OR	OR	OR	OR	OR		OR	OR	OR	OR	OR	

Required by code provision

Recommended method between compliant options

Alternative compliant option to recommendation



APPLICATION GUIDE EXAMPLE



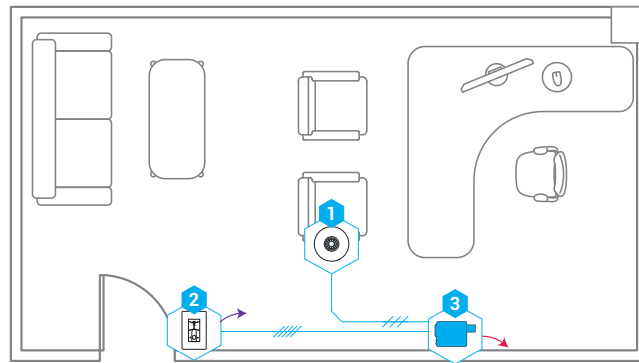
IECC 2015

LARGE PRIVATE OFFICE

WIRED

KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING
- LOW VOLTAGE WIRING (18 AWG)



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-803-xx	Dimming Wall Station (0-10V), <xx = color>
3	1	SWX-900-AX	Power Pack Controller w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level or automatically to 50% upon occupancy.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting automatically dims according to daylight contribution.
4. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-421-1**.
2. Maximum lighting level can be task tuned to increase energy savings.
3. For rooms with windows, change sensor to **SWX-231-D** to add daylight harvesting.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.1 & C405.2.1.1(1)

Manual Control - Switch
C405.2.2.3

Daylight Responsive Control
C405.2.3**

Manual On-Off/Partial Auto On
C405.2.1.1(2)

Manual Light Reduction Control - Dimmer
C405.2.2.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE.

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE. SEE DESIGN CONSIDERATION #3 FOR NECESSARY BILL OF MATERIAL CHANGE.



EXAMPLE

ROOM DESCRIPTION

Room Description

SOLUTION DESCRIPTION

Wired vs wireless solution indication

LAYOUT KEY

Listing of any symbols and line types used in the application drawings.

APPLICATION DIAGRAM

Basic room drawing with overlaid control device icons and wiring basics.

BILL OF MATERIALS

Model numbers, descriptions, and quantities of the referenced **SENSORWORX** controls

SEQUENCE OF OPERATION

Full summary of the spaces operation using the specified design.

ADDITIONAL DESIGN CONSIDERATIONS

Options and/or recommendations to specified design.

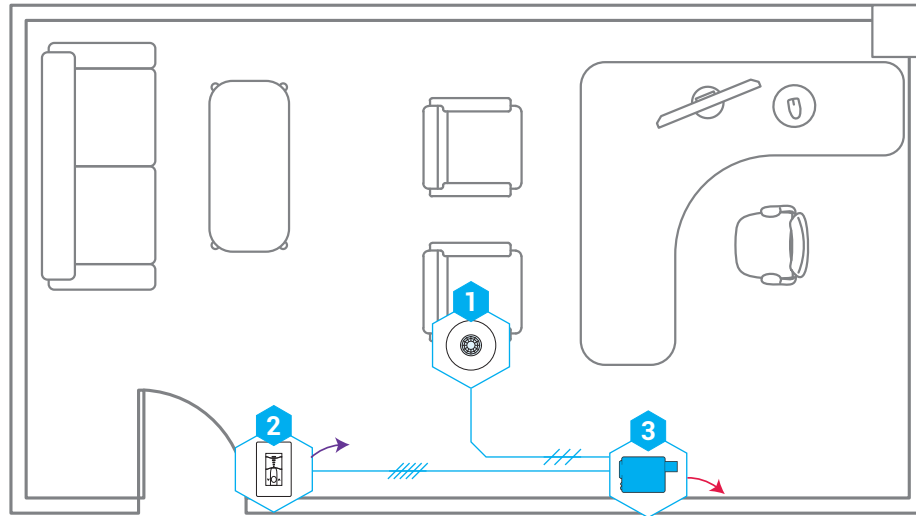
SUPPORTED CODE REQUIREMENTS

Listing of applicable Code Sections



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING
-  LOW VOLTAGE WIRING (18 AWG)



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-803-xx	Dimming Wall Station (0-10V), <xx = color>
3	1	SWX-900-AX	Power Pack Controller w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting automatically dims according to daylight contribution.
4. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-421-1**.
2. Maximum lighting level can be task tuned to increase energy savings.
3. For rooms with windows, change sensor to **SWX-231-D** to add daylight harvesting.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual Light Reduction Control - Dimmer
C405.2.1.2*

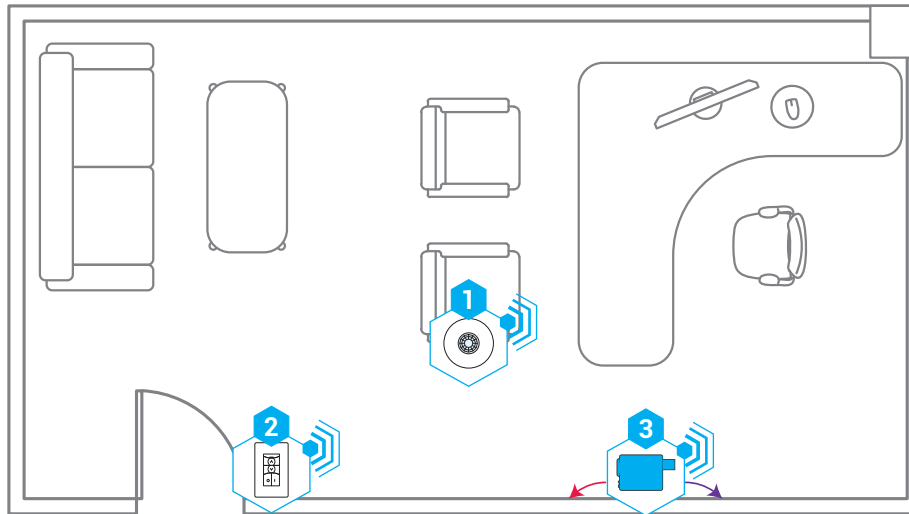
Daylight Responsive Control**
C202
C405.2.2.3
C405.2.4

*RECOMMENDED BUT NOT REQUIRED BY CODE.

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE. SEE DESIGN CONSIDERATION #3 FOR NECESSARY BILL OF MATERIAL CHANGE.



WIRELESS



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING
- WIRELESS CONNECTION

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-854-B-xx	Wireless Dimming Remote Wall Station, <xx = color>
3	1	SWX-950-D2	Wireless Power Pack Controller w/ Dimming (0-10V), 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting automatically dims according to daylight contribution.
4. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-421-B**.
2. Maximum lighting level can be task tuned to increase energy savings.
3. For rooms with windows, add a **SWX-250-B** daylight harvesting photocell.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual Light Reduction Control - Dimmer
C405.2.1.2*

Daylight Responsive Control**
C202
C405.2.2.3
C405.2.4

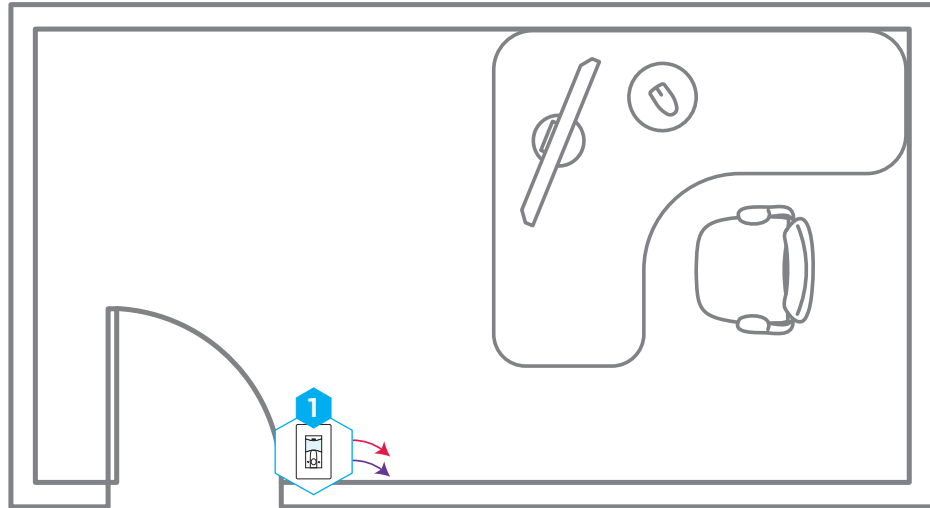
*RECOMMENDED BUT NOT REQUIRED BY CODE.

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE. SEE DESIGN CONSIDERATION #3 FOR NECESSARY BILL OF MATERIAL CHANGE.



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-121-D-xx	Dual Technology (PIR/Acoustic) Wall Switch Occupancy Sensor w/ Dimming (0-10V), 120/277 VAC, No Neutral Required, <xx = color>

SEQUENCE OF OPERATION

1. Lighting manually switched on to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Maximum lighting level can be task tuned to increase energy savings.

SUPPORTED CODE REQUIREMENTS

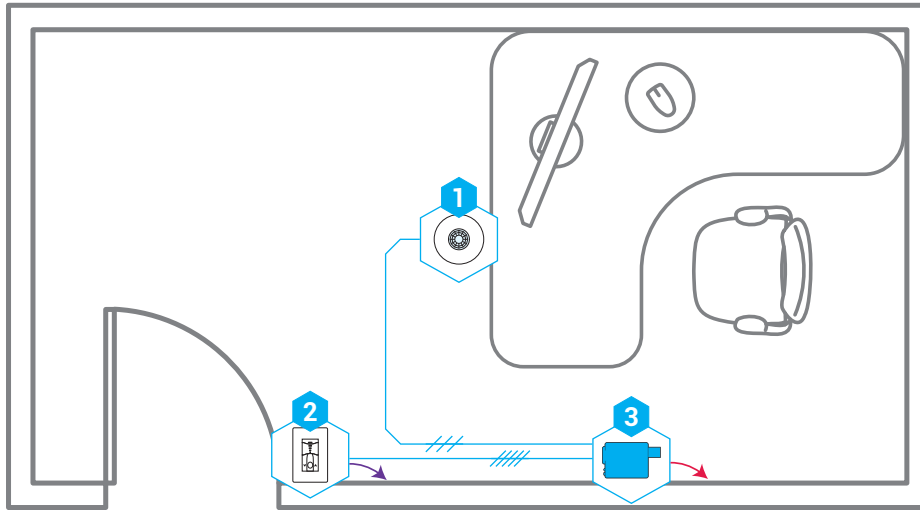
Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual On-Off
C405.2.2.2

Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING
- LOW VOLTAGE WIRING (18 AWG)

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-803-xx	Dimming Wall Station (0-10V), <xx = color>
3	1	SWX-900-AX	Power Pack Controller w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Maximum lighting level can be task tuned to increase energy savings.
2. Make lights automatically dim according to daylight contribution (see designs for Large Private Office).

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

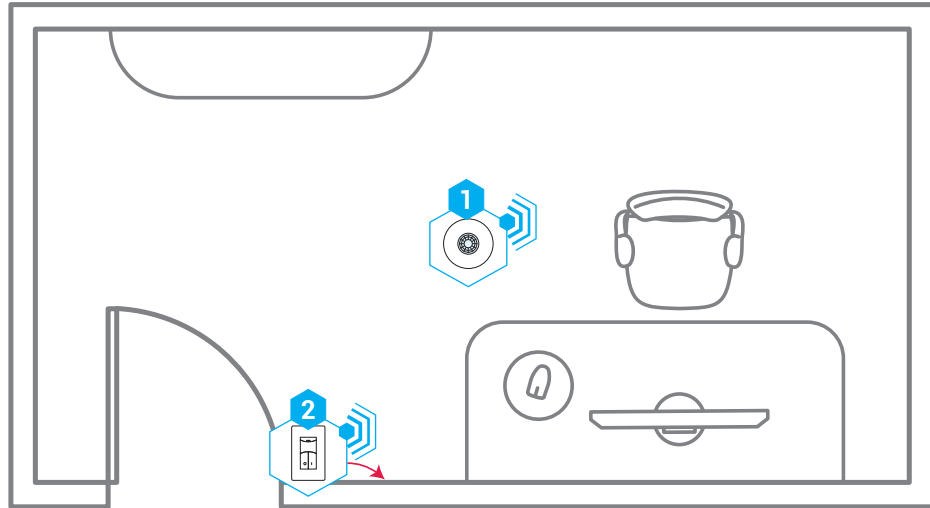
Manual Light Reduction Control - Dimmer
C405.2.1.2*

Daylight Responsive Control
C202
C405.2.2.3
C405.2.4

*RECOMMENDED BUT NOT REQUIRED BY CODE



KEY

 TO LINE VOLTAGE CONNECTIONS WIRELESS CONNECTION

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-851-xx	Wireless Wall Switch Controller, 120/277VAC, No Neutral Required, <xx = color>

SEQUENCE OF OPERATION

1. Lighting switched on manually via wall switch.
2. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

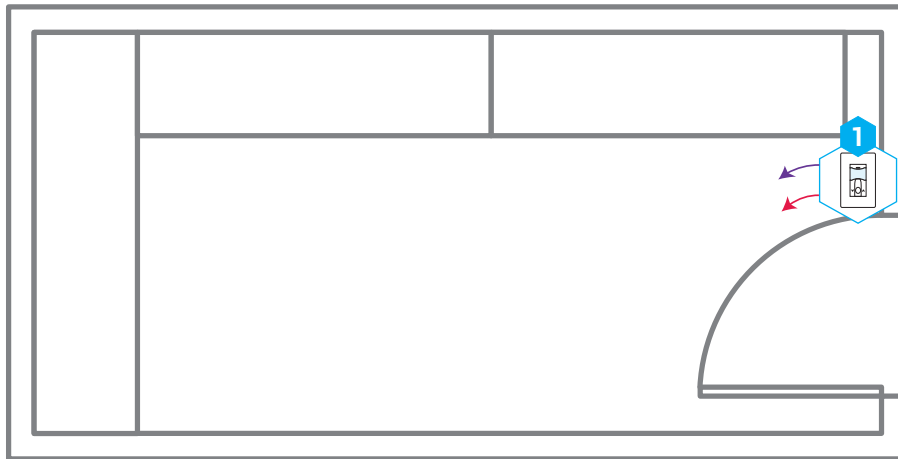
1. Alternative corner mount sensor model **SWX-401-B**.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual On-Off
C405.2.2.2



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-101-D-xx	PIR Wall Switch Occupancy Sensor w/ Dimming (0-10V), 120/277 VAC, <xx = color>

SEQUENCE OF OPERATION

1. Lighting manually switched on to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Maximum lighting level can be task tuned to increase energy savings.
2. For a compliant non-dimming solution, use a **SWX-103-xx**.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

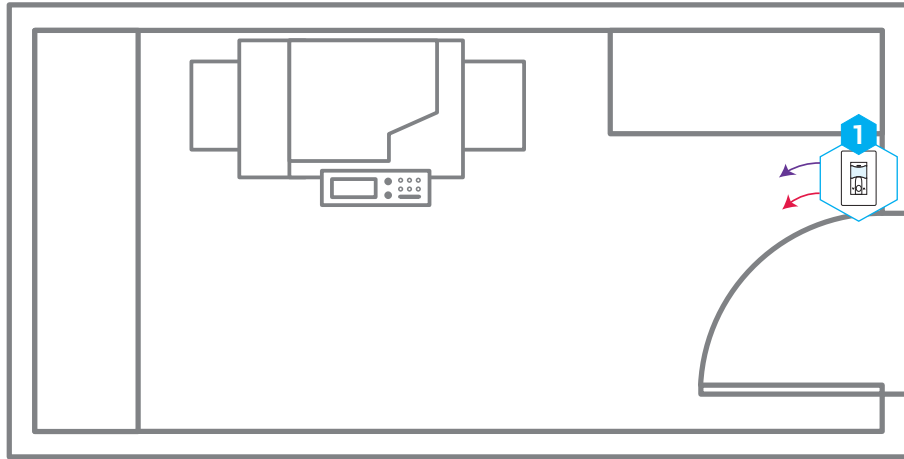
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-101-D-xx	PIR Wall Switch Occupancy Sensor w/ Dimming (0-10V), 120/277 VAC, <xx = color>

SEQUENCE OF OPERATION

1. Lighting manually switched on to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Maximum lighting level can be task tuned to increase energy savings.
2. For a compliant non-dimming solution, use a **SWX-103-xx**.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

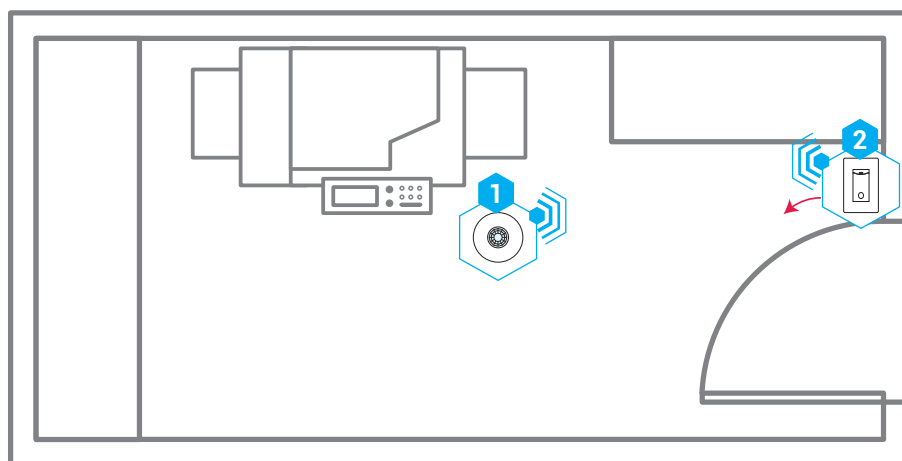
Manual On-Off
C405.2.2.2

Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



WIRELESS



KEY

 TO LINE VOLTAGE CONNECTIONS

 WIRELESS CONNECTION

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-201-B	Wireless PIR Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-851-xx	Wireless Wall Switch Controller, 120/277VAC, No Neutral Required, <xx = color>

SEQUENCE OF OPERATION

1. Lighting switched on manually via wall switch.
2. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-401-B**.

SUPPORTED CODE REQUIREMENTS

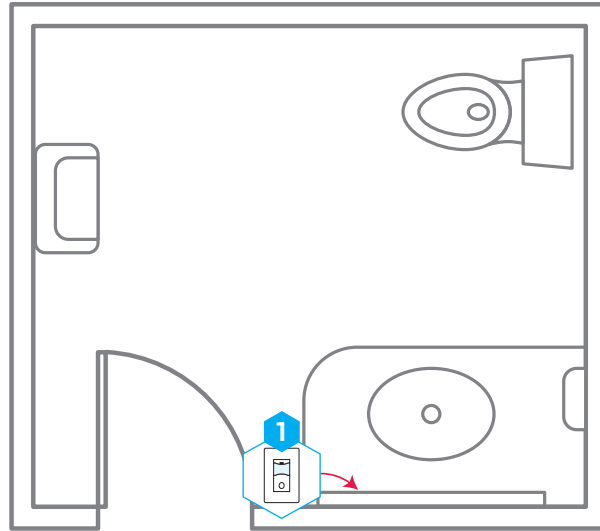
Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual On-Off
C405.2.2.2



KEY

 TO LINE VOLTAGE CONNECTIONS

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-121-xx	Dual Technology (PIR/Acoustic) Wall Switch Occupancy Sensor, 120/277 VAC, No Neutral Required, <xx = color>

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. On/off manual control of lighting.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

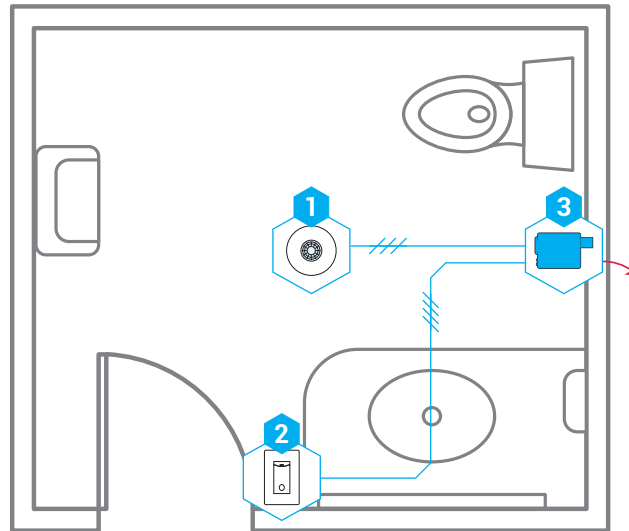
1. If no stalls are present, a PIR only sensor (model **SWX-101-xx**) may be substituted as a value engineered option.
2. To control a ventilation fan or secondary lighting load, use a sensor and "sidecar" switch kit (model **SWX-122-xx**).

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Auto On to Full Allowed
C405.2.2.2



KEY

- TO LINE VOLTAGE CONNECTIONS
 LOW VOLTAGE WIRING (18 AWG)

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-801-xx	On/Off Wall Switch - Low Voltage, <xx = color>
3	1	SWX-900-AX	Power Pack Controller w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. On/off manual control of lighting.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. If no stalls are present, a PIR only sensor (model **SWX-201-1**) may be substituted as a value engineered option.
2. To control a ventilation fan or secondary lighting load(s), add one or more secondary relay packs (model **SWX-910**).

SUPPORTED CODE REQUIREMENTS

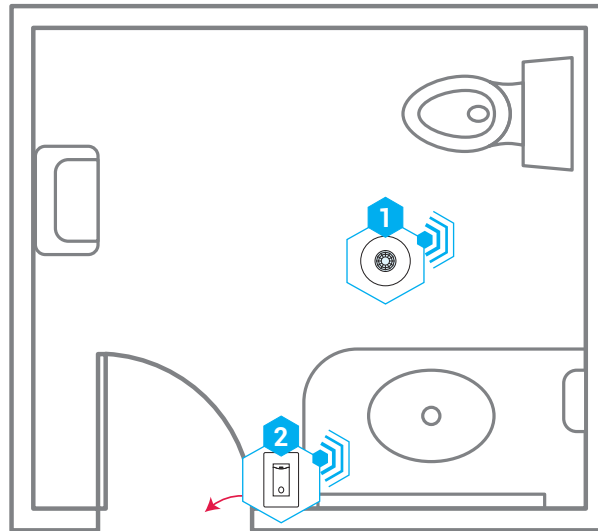
Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual On to Full Allowed
C405.2.2.2



KEY

 TO LINE VOLTAGE CONNECTIONS WIRELESS CONNECTION

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-B	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-851-xx	Wireless On/Off Wall Switch, 120/277 VAC, No Neutral Required, <xx = color>

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. On/off manual control of lighting.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. If no stalls are present, a PIR only sensor (model **SWX-201-B**) may be substituted as a value engineered option.
2. To control a ventilation fan or secondary lighting load(s), add one or more wireless power packs (model **SWX-950**).

SUPPORTED CODE REQUIREMENTS

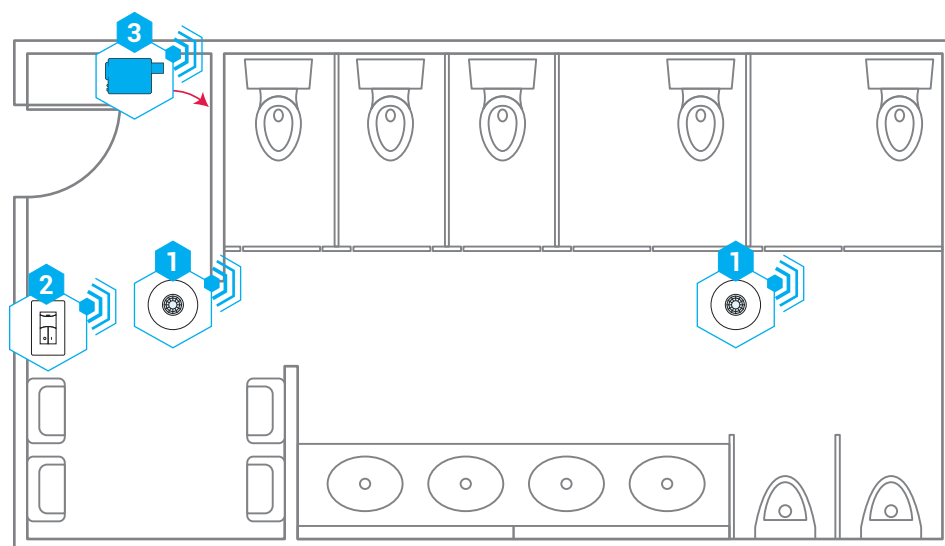
Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Auto On to Full Allowed
C405.2.2.2



WIRELESS



KEY

→ TO LINE VOLTAGE CONNECTIONS

WIRELESS CONNECTION

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	2	SWX-221-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-852-B-xx	Wireless Remote On/Off Wall Station, <xx = color>
3	1	SWX-950	Wireless Power Pack Controller, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. On/off manual control of lighting.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

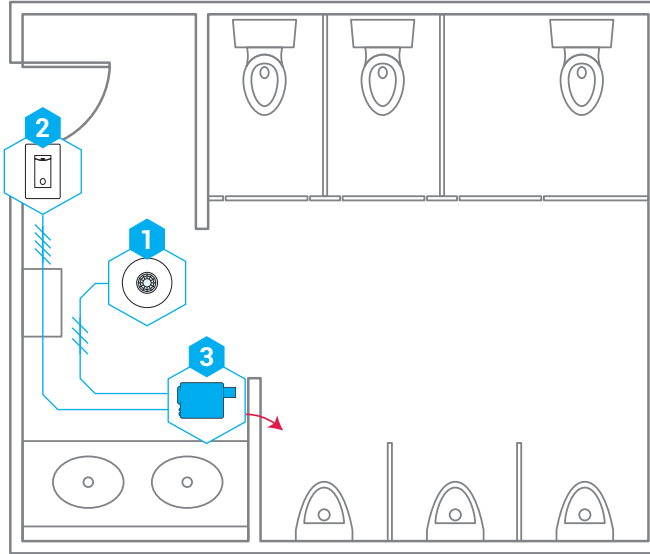
Manual Control - Switch
C405.2.1.1

Auto On to Full Allowed
C405.2.2.2



KEY

- TO LINE VOLTAGE CONNECTIONS
- LOW VOLTAGE WIRING (18 AWG)



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-222-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Large Motion, Ceiling Mount 360°
2	1	SWX-801-xx	On/Off Wall Switch - Low Voltage, <xx = color>
3	1	SWX-900-AX	Power Pack Controller w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. On/off manual control of lighting.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Additional sensors can be added to provide coverage of entry vestibules or for wash areas.

SUPPORTED CODE REQUIREMENTS

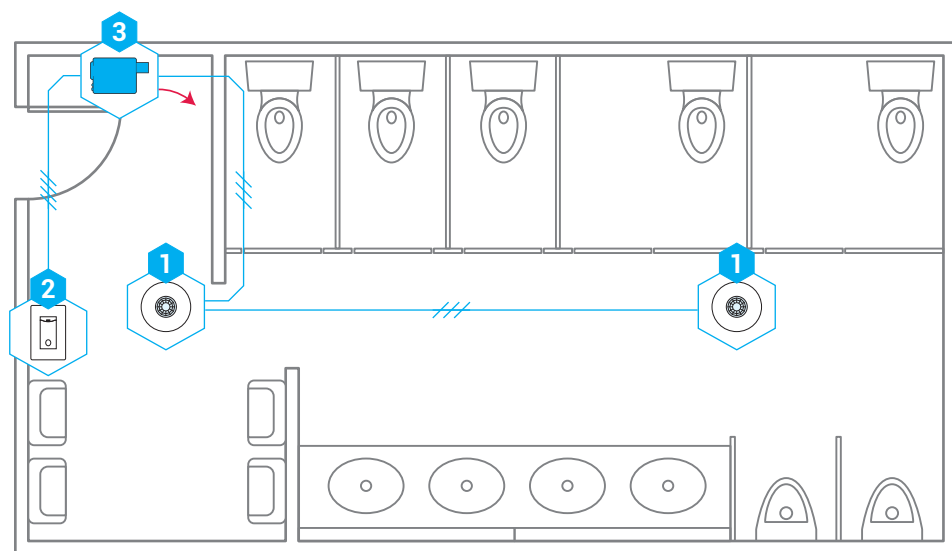
Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Auto On to Full Allowed
C405.2.2.2



WIRED



KEY

-  TO LINE VOLTAGE CONNECTIONS
 LOW VOLTAGE WIRING (18 AWG)

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	2	SWX-222-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Large Motion, Ceiling Mount 360°
2	1	SWX-801-xx	On/Off Wall Switch - Low Voltage, <xx = color>
3	1	SWX-900-AX	Power Pack Controller w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. On/off manual control of lighting.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

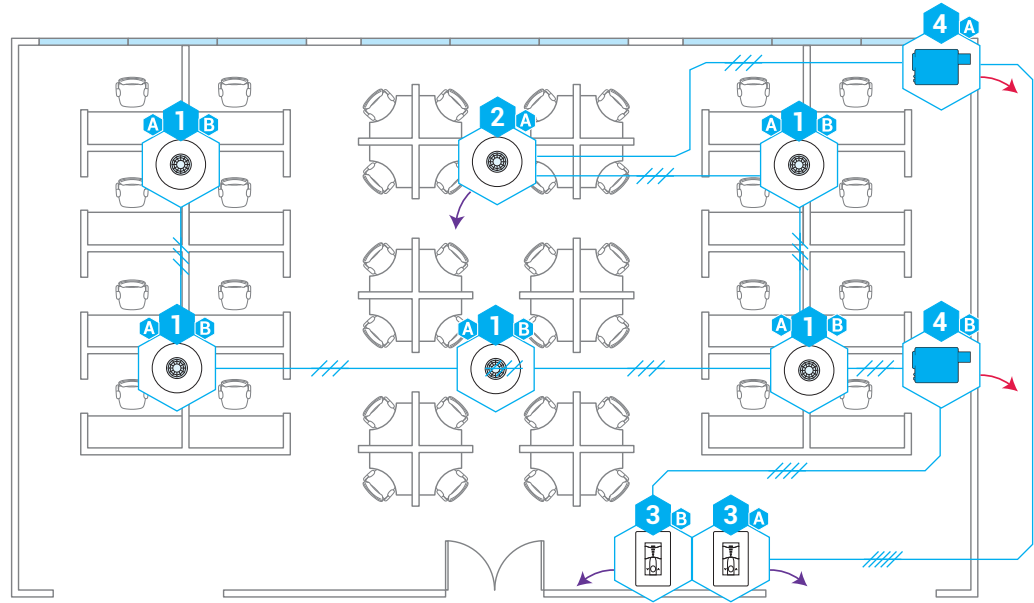
Manual Control - Switch
C405.2.1.1

Auto On to Full Allowed
C405.2.2.2



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V FIXTURES
-  LOW VOLTAGE WIRING (18 AWG)
-  DAYLIGHT ZONE
-  NON-DAYLIGHT ZONE



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	5	SWX-221-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-231-1-D	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360° w/ Integrated Daylight Harvesting (0-10V)
3	2	SWX-803-xx	Dimming Wall Station (0-10V), <xx = color>
4	2	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of each lighting zone via separate dimmer switches.
3. Lighting in daylight zone(s) automatically dims according to daylight contribution.
4. All lighting zones turn off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Maximum lighting levels can be task tuned to increase energy savings.
2. Increase number of control zones by adding **SWX-900-AX** and **SWX-803-xx** units.
3. A standalone daylight harvesting sensor may also be used (model **SWX-250-1-D**) instead of combined sensor/daylight harvesting unit.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Daylight Responsive Control**
C202
C405.2.2.3
C405.2.4

Manual On-Off
C405.2.2.2

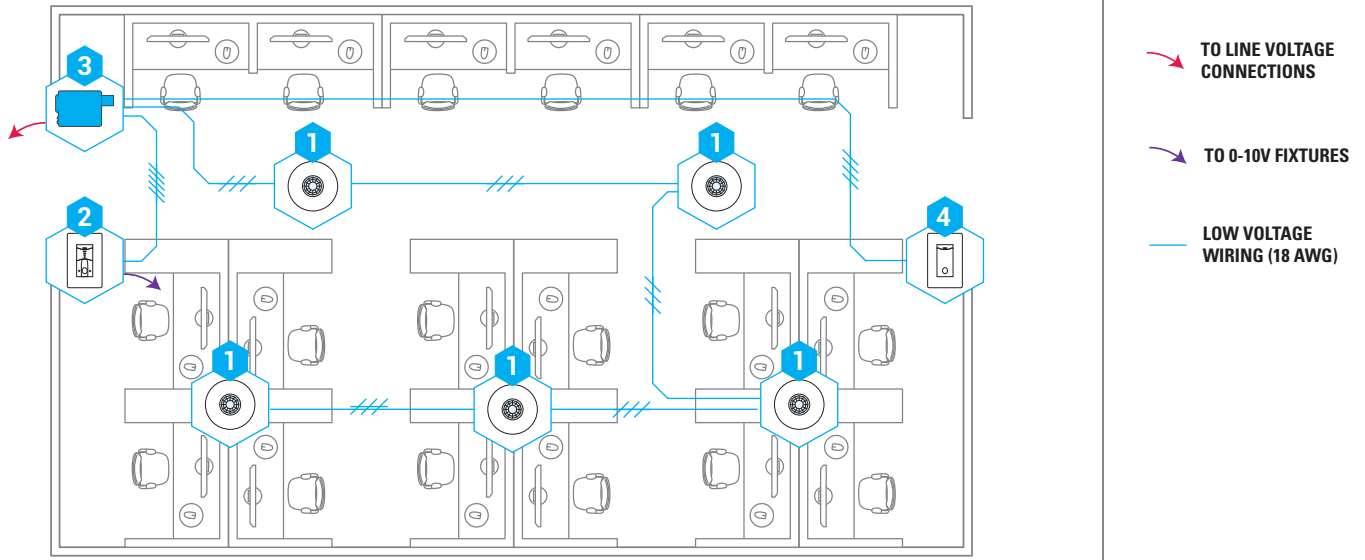
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE



WIRED



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	5	SWX-221-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-803-xx	Dimming Wall Station (0-10V), <xx = color>
3	1	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC
4	1	SWX-801-xx	On/Off Wall Station, <xx = color>

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of each lighting zone via separate dimmer switches.
3. All lighting zones turn off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Maximum lighting levels can be task tuned to increase energy savings.
2. Increase number of control zones by adding **SWX-900-AX** and **SWX-803-xx** units.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual On-Off
C405.2.2.2

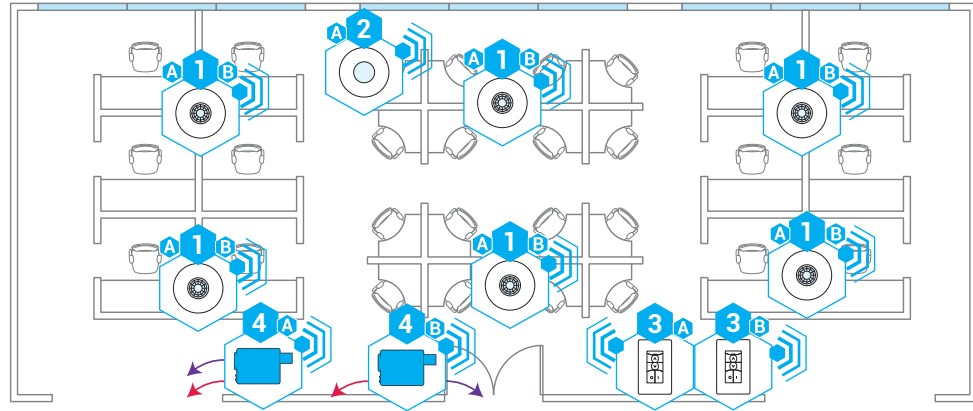
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING
-  WIRELESS CONNECTION
-  DAYLIGHT ZONE
-  NON-DAYLIGHT ZONE



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
	6	SWX-221-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
	1	SWX-250-B	Wireless Daylight Harvesting Photocell
	2	SWX-854-B-xx	Wireless Remote Dimming Wall Station, <xx = color>
	2	SWX-950-D2	Wireless Power Pack w/ Dimming (0-10V), 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of each lighting zone via separate dimmer switches.
3. Lighting in daylight zone(s) automatically dims according to daylight contribution.
4. All lighting zones turn off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Maximum lighting levels can be task tuned to increase energy savings.
2. Increase number of control zones by adding **SWX-950-D2** and **SWX-854-B-xx** units.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Daylight Responsive Control**
C202
C405.2.2.3
C405.2.4

Manual On-Off
C405.2.2.2

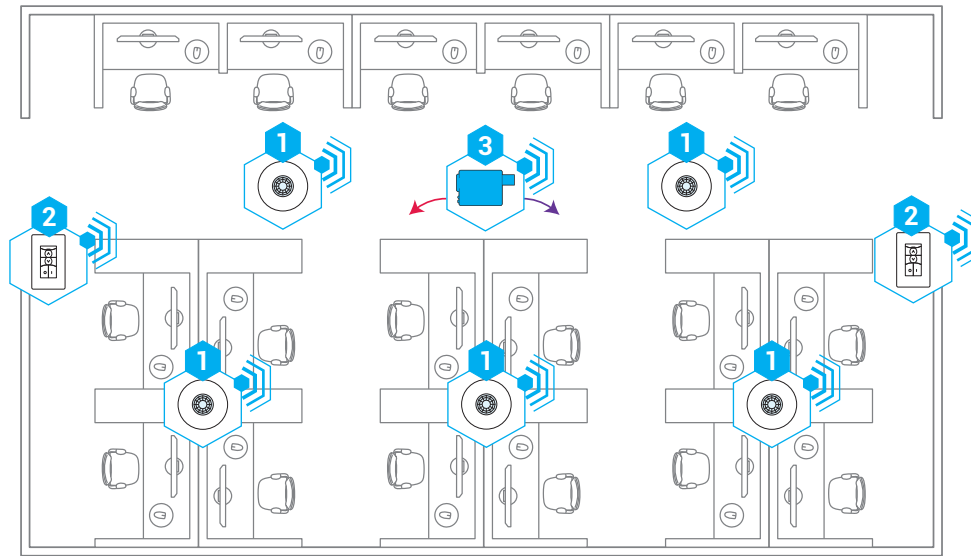
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE



WIRELESS



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING
- WIRELESS CONNECTION

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	5	SWX-221-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	2	SWX-854-B-xx	Wireless Remote Dimming Wall Station (0-10V), <xx = color>
3	1	SWX-950-D2	Wireless Power Pack w/ Dimming (0-10V), 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of each lighting zone via separate dimmer switches.
3. All lighting zones turn off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Maximum lighting levels can be task tuned to increase energy savings.
2. Increase number of control zones by adding **SWX-950-D2** and **SWX-854-B-xx** units.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

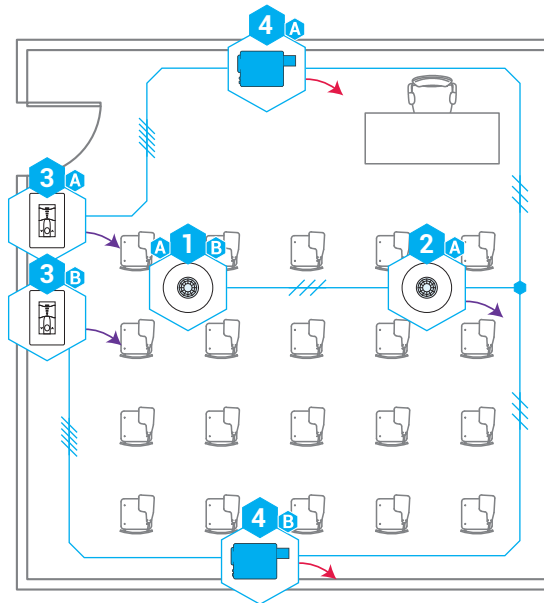
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING
-  LOW VOLTAGE WIRING (18 AWG)
-  DAYLIGHT ZONE
-  NON-DAYLIGHT ZONE



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
	1	SWX-221-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
	1	SWX-231-1-D	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360° w/ Daylight Harvesting (0-10V)
	2	SWX-803-xx	Dimming Wall Station (0-10V), <xx = color>
	2	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of each lighting zone via separate dimmer switches.
3. Lighting in daylight zone(s) automatically dims according to daylight contribution.
4. All lighting zones turn off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-421-1** (see wired option 2)
2. Increase number of control zones by adding **SWX-900-AX** and **SWX-803-xx** units.
3. Maximum lighting level can be task tuned to increase energy savings.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Daylight Responsive Control**

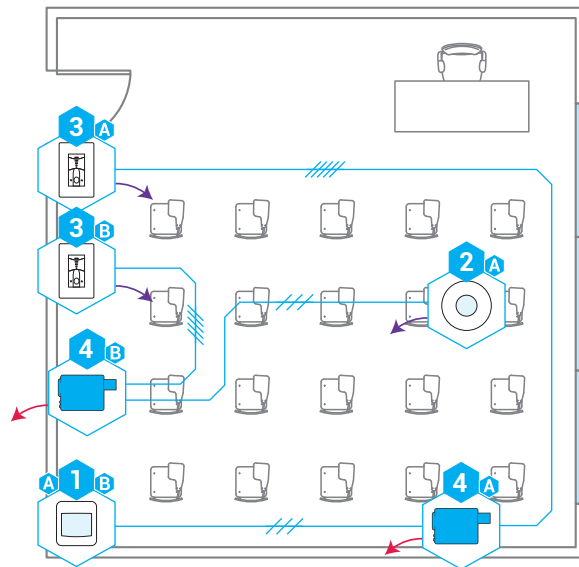
C202
C405.2.2.3
C405.2.4

Manual On-Off
C405.2.2.2

Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING
- LOW VOLTAGE WIRING (18 AWG)
- A DAYLIGHT ZONE
- B NON-DAYLIGHT ZONE

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-421-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Wide View Corner Mount
2	1	SWX-250-1-D	Daylight Harvesting Photocell (0-10V)
3	2	SWX-803-xx	Dimming Wall Station (0-10V), <xx = color>
4	2	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

- Lighting switched on manually to last user level.
- On/off & raise/lower control of each lighting zone via separate dimmer switches.
- Lighting in daylight zone(s) automatically dims according to daylight contribution.
- All lighting zones turn off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

- Increase number of control zones by adding **SWX-900-AX** and **SWX-803-xx** units.
- Maximum lighting level can be task tuned to increase energy savings.
- For added occupancy coverage, change daylight harvesting sensor to combination occupancy & daylight harvesting sensor (model **SWX-231-1-D**) or add a second corner mount sensor.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual Light Reduction Control - Dimmer
C405.2.1.2*

Daylight Responsive Control**
C202
C405.2.2.3
C405.2.4

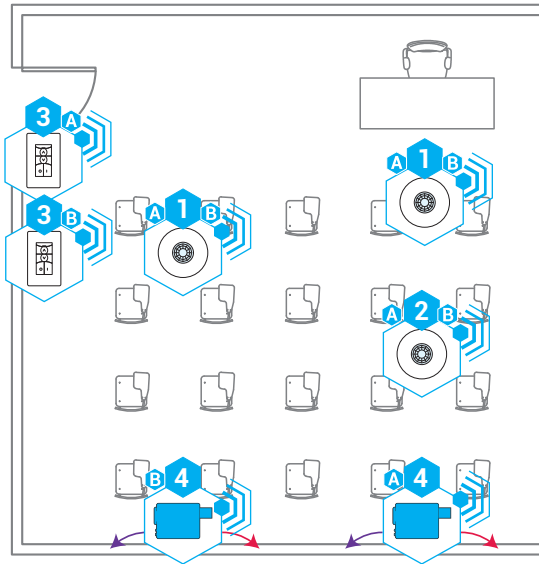
*RECOMMENDED BUT NOT REQUIRED BY CODE

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING
-  WIRELESS CONNECTION
-  DAYLIGHT ZONE
-  NON-DAYLIGHT ZONE



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	2	SWX-221-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-250-B	Wireless Daylight Harvesting Photocell
3	2	SWX-854-B-xx	Wireless Remote Dimming Wall Station (0-10V), <xx = color>
4	2	SWX-950-D2	Wireless Power Pack w/ Dimming (0-10V), 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of each lighting zone via separate dimmer switches.
3. Lighting in daylight zone(s) automatically dims according to daylight contribution.
4. All lighting zones turn off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-421-B** (see wireless option 2).
2. Increase number of control zones by adding **SWX-950-D** and **SWX-854-B-xx** units.
3. Maximum lighting level can be task tuned to increase energy savings.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Daylight Responsive Control**

C202
C405.2.2.3
C405.2.4

Manual On-Off
C405.2.2.2

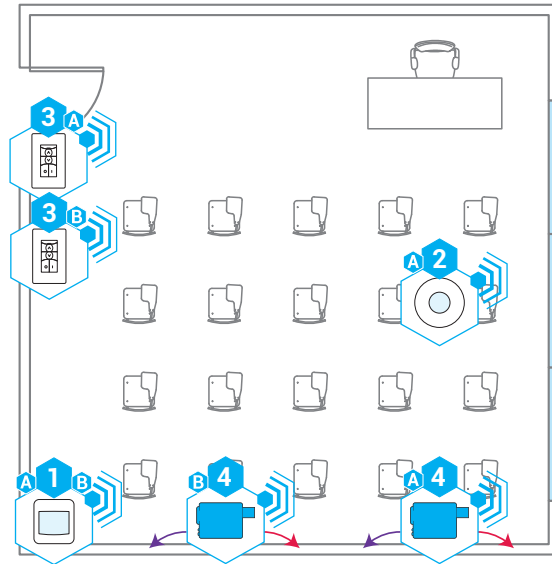
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE



WIRELESS OPTION 2



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING
- WIRELESS CONNECTION
- DAYLIGHT ZONE
- NON-DAYLIGHT ZONE

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
	1	SWX-421-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Wide View Corner Mount
	1	SWX-250-B	Wireless Daylight Harvesting Photocell
	2	SWX-854-B-xx	Wireless Remote Dimming Wall Station, <xx = color>
	2	SWX-950-D2	Wireless Power Pack w/ Dimming (0-10V), 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of each lighting zone via separate dimmer switches.
3. Lighting in daylight zone(s) automatically dims according to daylight contribution.
4. All lighting zones turn off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Increase number of control zones by adding **SWX-950-D** and **SWX-854-B-xx** units.
2. Maximum lighting level can be task tuned to increase energy savings.
3. For enhanced occupancy coverage, add a second corner mount sensor in adjacent corner.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Manual Light Reduction Control - Dimmer
C405.2.1.2*

Daylight Responsive Control**
C202
C405.2.2.3
C405.2.4

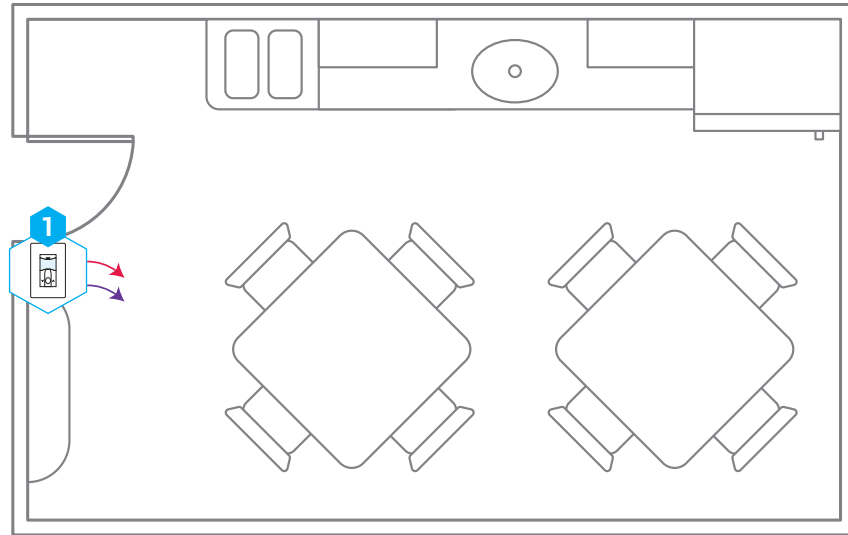
*RECOMMENDED BUT NOT REQUIRED BY CODE

**NOT REQUIRED FOR ROOMS WITH < 150W OF LIGHTING IN PRIMARY DAYLIGHT ZONE



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-121-D-xx	Dual Technology (PIR/Acoustic) Wall Switch Occupancy Sensor w/ Dimming (0-10V), 120/277 VAC, , <xx = color>

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. For a compliant non-dimming solution, use a **SWX-101-xx**.
2. Maximum lighting level can be task tuned to increase energy savings.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

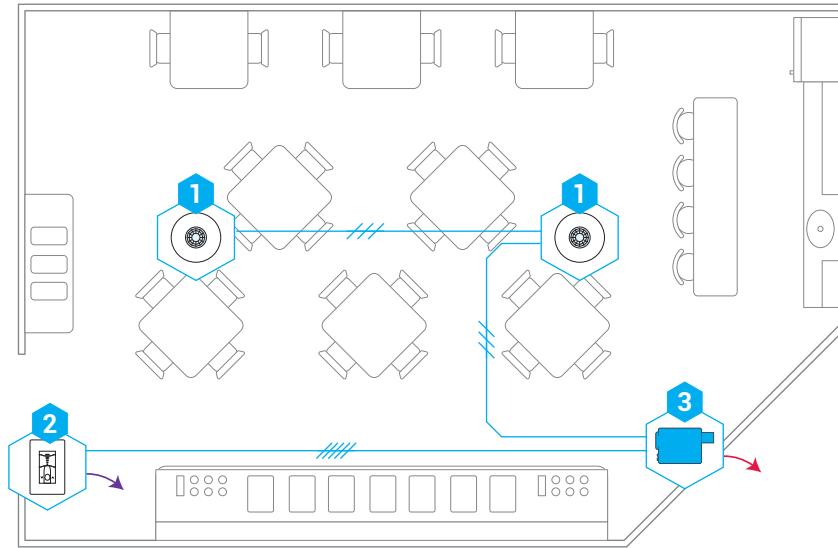
Manual On-Off/Partial Auto On
C405.2.2.2

Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



WIRED



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING
- LOW VOLTAGE WIRING (18 AWG)

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	2	SWX-221-1	Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-803-xx	Dimming Wall Station (0-10V), <xx = color>
3	1	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-421-1**.
2. Maximum lighting level can be task tuned to increase energy savings.
3. If room has >150W of lighting in a daylight zone, add daylight harvesting photocell (model **SWX-250-1-D**).
4. For a compliant non-dimming solution, use a **SWX-801-xx** instead of the **SWX-803-xx**.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

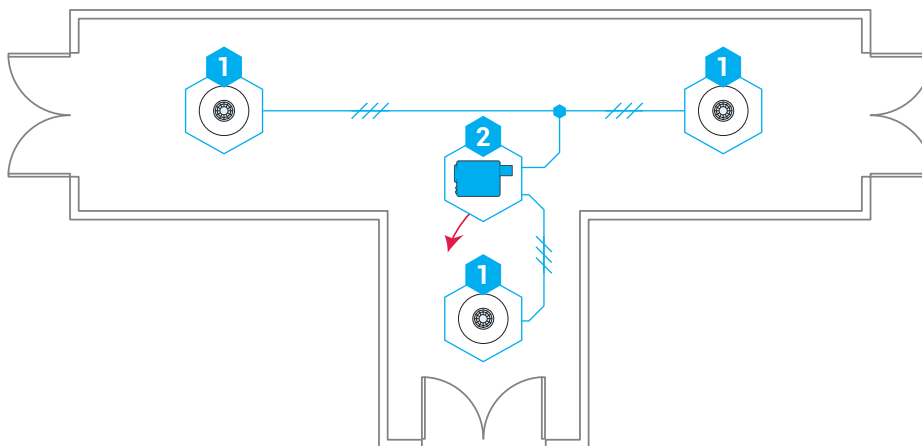
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  LOW VOLTAGE WIRING (18 AWG)



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
	3	SWX-202-1	PIR Occupancy Sensor, Large Motion, Ceiling Mount 360°
	1	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. Lighting turns off automatically after occupants leave the space.

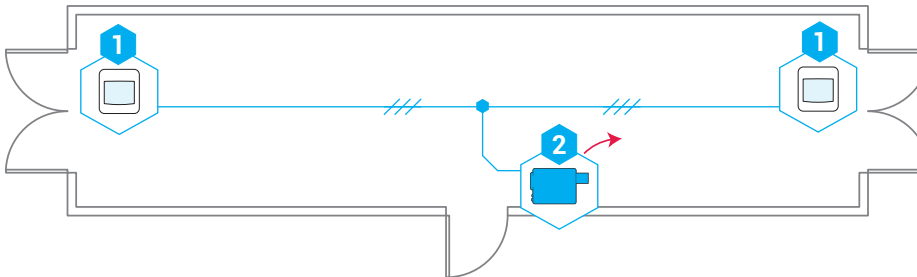
ADDITIONAL DESIGN CONSIDERATIONS

1. In long corridors, add additional ceiling sensors every 40 ft as needed.
2. Alternative hallway sensor (at ends of corridor) model **SWX-402-1**.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Auto On to Full Allowed
C405.2.2.2



KEY

- TO LINE VOLTAGE CONNECTIONS
- LOW VOLTAGE WIRING (18 AWG)

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	2	SWX-402-1	PIR Occupancy Sensor, Hallway Coverage
2	1	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. In corridors over 100 ft, add additional ceiling sensors in middle as needed.

SUPPORTED CODE REQUIREMENTS

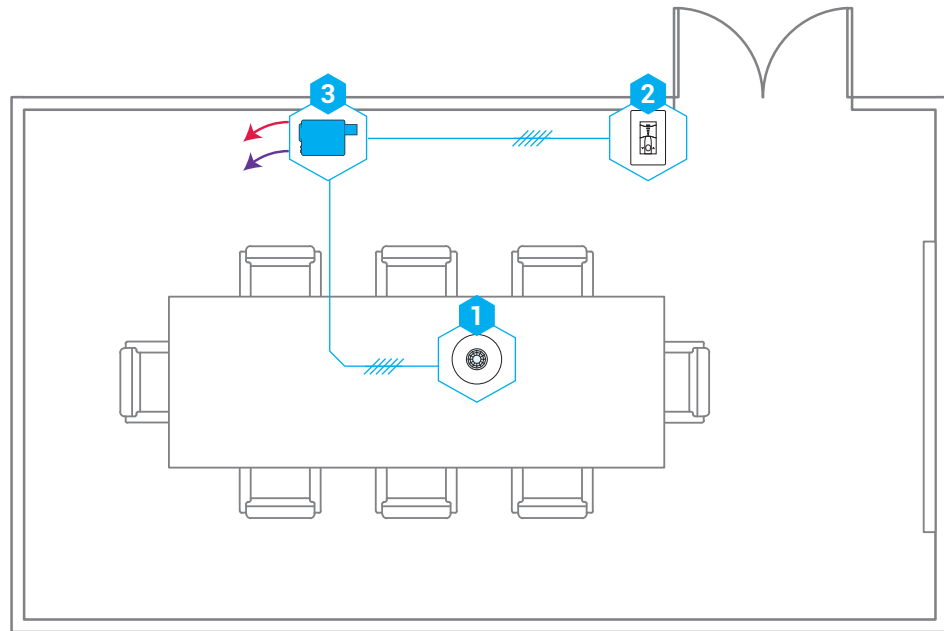
Occupancy Sensor Control
C405.2.2.2

Auto On to Full Allowed
C405.2.2.2



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING
-  LOW VOLTAGE WIRING (18 AWG)



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-1	Dual Technology Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-803-xx	Dimming Wall Station, <xx = color>
3	1	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-421-1**.
2. Maximum lighting level can be task tuned to increase energy savings.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

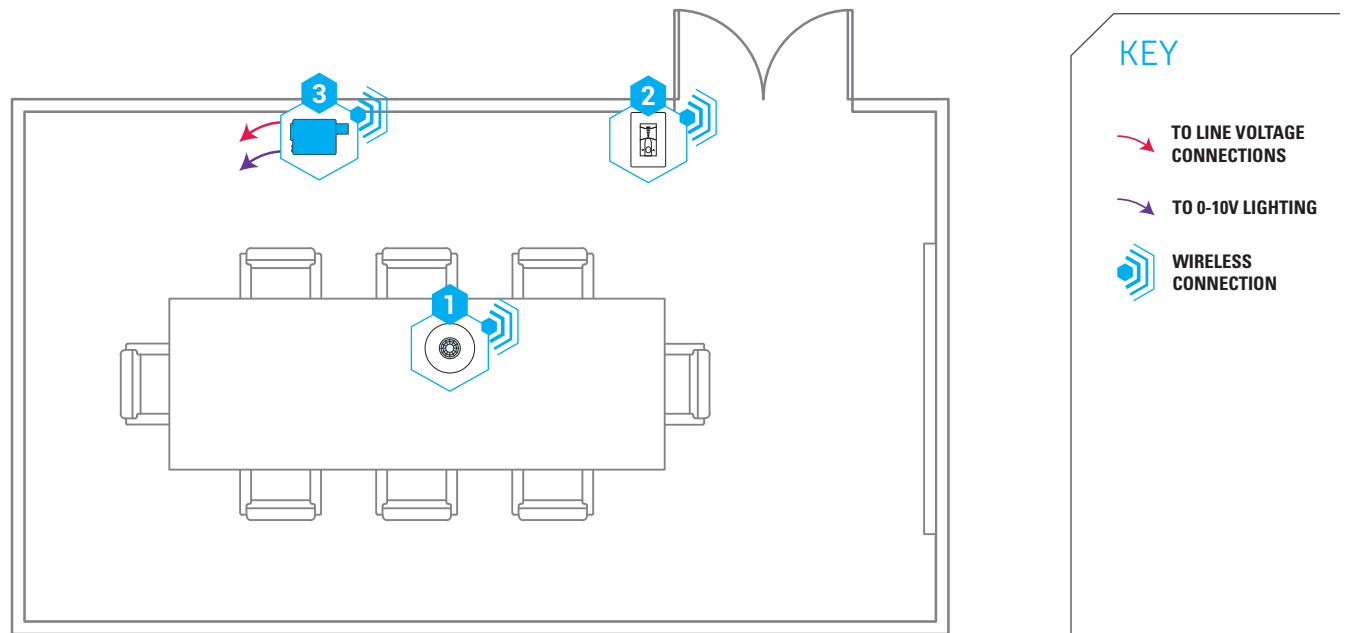
Manual Control - Switch
C405.2.1.1

Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



WIRELESS



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-221-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
2	1	SWX-854-B-xx	Wireless Remote Dimming Wall Station, <xx = color>
3	1	SWX-950-D2	Wireless Power Pack w/ Dimming (0-10V), 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on manually to last user level.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative corner mount sensor model **SWX-421-B**.
2. Maximum lighting level can be task tuned to increase energy savings.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual On-Off
C405.2.2.2

Manual Control - Switch
C405.2.1.1

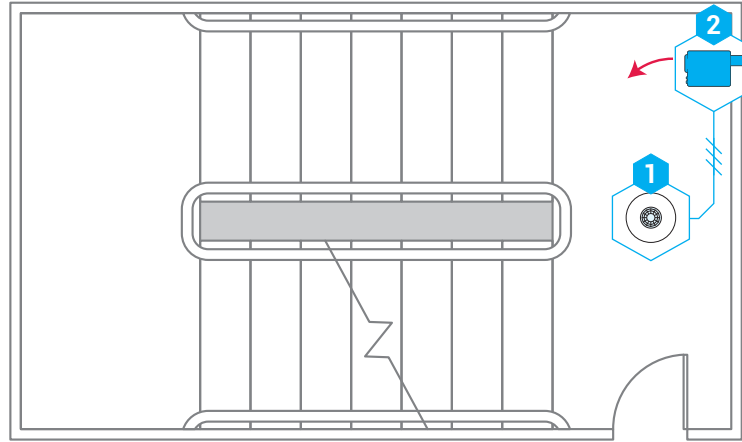
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE



KEY

- TO LINE VOLTAGE CONNECTIONS
- LOW VOLTAGE WIRING (18 AWG)



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-202-1	Dual Technology Occupancy Sensor, Large Motion, Ceiling Mount 360°
2	1	SWX-900-AX-D2	Power Pack, 120/277 VAC, w/ Partial Off (0-10V) Control

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. Lighting drops to low level automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Control multiple levels together by adding a sensor on every entry landing controlled by the same lighting circuit (i.e. common power pack).
2. Line voltage ceiling sensors (model **SWX-202-2**) or fixture mount sensors (model **SWX-501**) could also be used instead of low voltage sensor and power pack (see facing page).

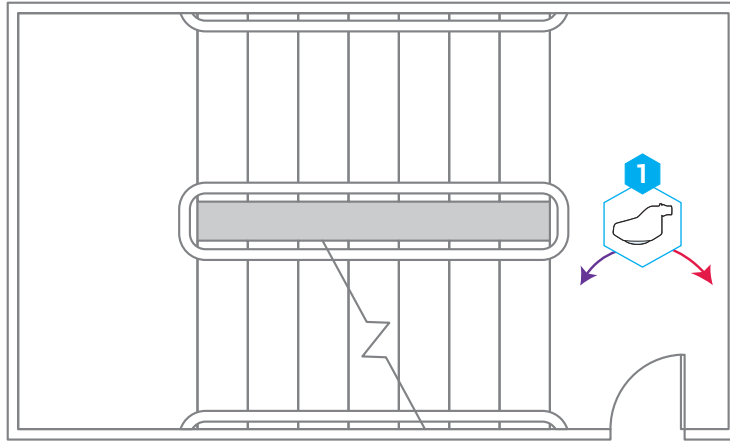
SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1*

Auto On to Full Allowed
C405.2.2.2

*NOT REQUIRED FOR AREAS WITH SAFETY CONCERNS



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
1	1	SWX-501-HL	Fixture Mount Sensor w/ Partial Off (0-10V) Control, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. Lighting drops to low level automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. Alternative ceiling mount sensor model **SWX-202-2-D**.

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1*

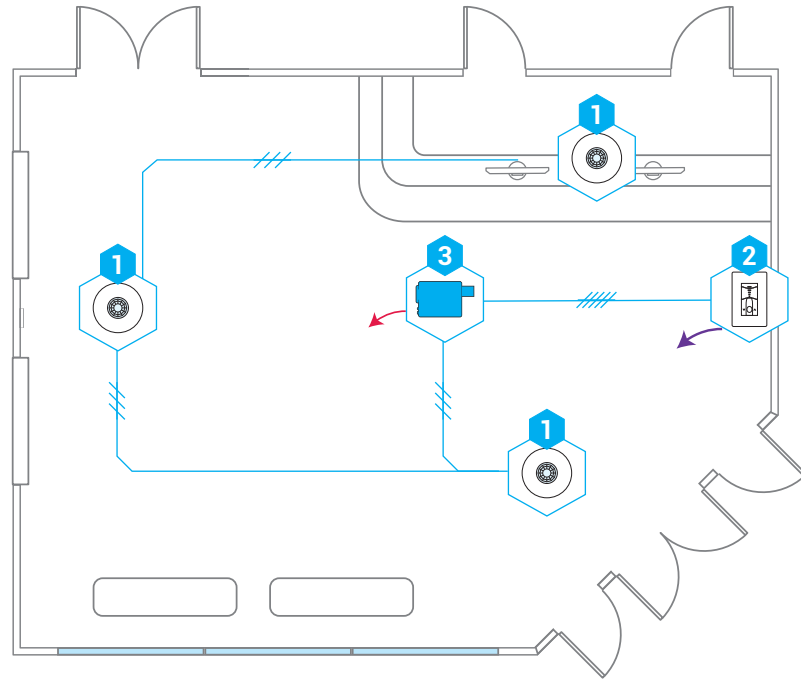
Auto On to Full Allowed
C405.2.2.2

*NOT REQUIRED FOR AREAS WITH SAFETY CONCERNS



KEY

-  TO LINE VOLTAGE CONNECTIONS
-  TO 0-10V LIGHTING
-  LOW VOLTAGE WIRING (18 AWG)



BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
	2	SWX-221-1	Dual Technology Occupancy Sensor, Small Motion, Ceiling Mount 360°
	1	SWX-803-xx	Dimming Wall Station, <xx = color>
	1	SWX-900-AX	Power Pack w/ Auxiliary Switch Input, 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns of automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. If no reception or chairs are present, PIR only sensor is adequate, model **SWX-202-1**
2. Maximum lighting level can be task tuned to increase energy savings.
3. If space has > 150W of lighting in a daylight zone, add daylight harvesting photocell (model **SWX-250-1-D**) or change one occupancy sensor to model **SWX-231-1-D**.

SUPPORTED CODE REQUIREMENTS

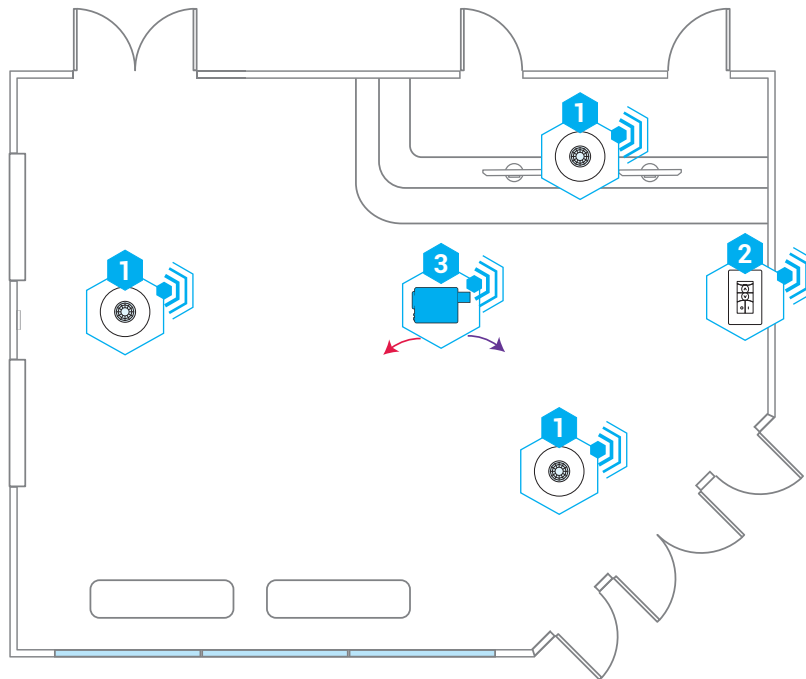
Occupancy Sensor Control
C405.2.2.2

Manual Control - Switch
C405.2.1.1

Auto On to Full Allowed
C405.2.2.2

Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE.



KEY

- TO LINE VOLTAGE CONNECTIONS
- TO 0-10V LIGHTING
- WIRELESS CONNECTION

BILL OF MATERIAL

DIAGRAM #	QTY	MODEL #	DESCRIPTION
	3	SWX-221-B	Wireless Dual Technology (PIR/Acoustic) Occupancy Sensor, Small Motion, Ceiling Mount 360°
	1	SWX-854-B-xx	Wireless Remote Dimming Wall Station, <xx = color>
	1	SWX-950-D2	Wireless Power Pack w/ Dimming (0-10V), 120/277 VAC

SEQUENCE OF OPERATION

1. Lighting switched on automatically to full bright.
2. On/off & raise/lower control of lighting via dimmer switch.
3. Lighting turns off automatically after occupants leave the space.

ADDITIONAL DESIGN CONSIDERATIONS

1. If no reception or chairs are present, PIR only sensor is adequate, model **SWX-201-B**.
2. Maximum lighting level can be task tuned to increase energy savings.
3. If space has >150W of lighting in a daylight zone, add daylight harvesting photocell (model **SWX-250-B**).

SUPPORTED CODE REQUIREMENTS

Occupancy Sensor Control
C405.2.2.2

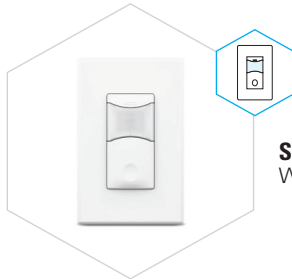
Auto On to Full Allowed
C405.2.2.2

Manual Control - Switch
C405.2.1.1

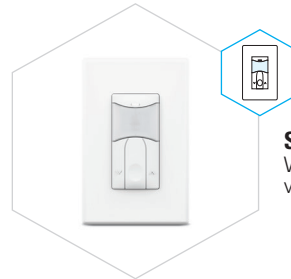
Manual Light Reduction Control - Dimmer
C405.2.1.2*

*RECOMMENDED BUT NOT REQUIRED BY CODE.

NOTES



SWX-100 SERIES
Wall Switch Sensor



SWX-100-D SERIES
Wall Switch Sensor
with Dimming



SWX-200 SERIES
Ceiling Sensors



SWX-250 SERIES
On/Off &
Daylight Harvesting
Photocell



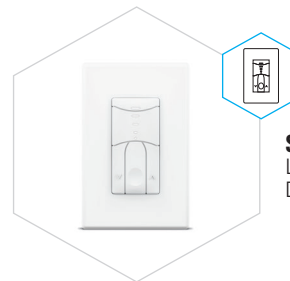
SWX-400 SERIES
Wideview &
Hallway Sensors



SWX-500 SERIES
Fixture Mount Sensors



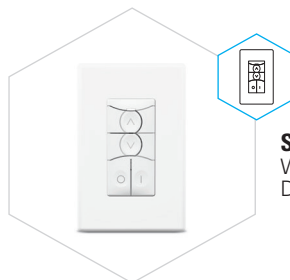
SWX-801
Low Voltage
Switch



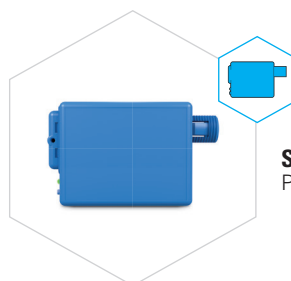
SWX-803
Low Voltage
Dimmer Switch



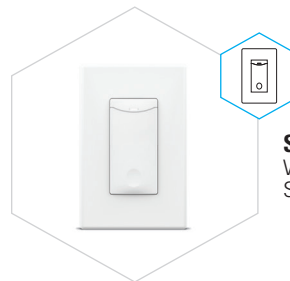
SWX-852
Wireless Switch



SWX-854
Wireless
Dimmer Switch



SWX-900 SERIES
Power Packs



SWX-851
Wireless Load Control
Switch



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