

# SensorSwitch™ Application Solution Guide



## The Standalone Wired or Wireless Lighting Controls for Indoor or Outdoor Spaces, You Can Count On

- **Wired or Wireless:** Choose wired SensorSwitch or wireless SensorSwitch AIR products designed with proven technology
- **Install & Go:** Out-of-the-box operation to address rebate programs and simple code compliance
- **For Your Projects:** For new construction and retrofit spaces, including indoor room-based, industrial or outdoor
- **Embedded Controls:** Available in over 200 Acuity Brands luminaire families
- **Find it Easily:** Stocked at your local distributor or available in as little as two days

### About This Guide:

The SensorSwitch Application Solution Guide serves as a reference for typical SensorSwitch layouts in classrooms, offices, warehouse, and other applications. For additional information, visit [sensorswitch.com](http://sensorswitch.com)



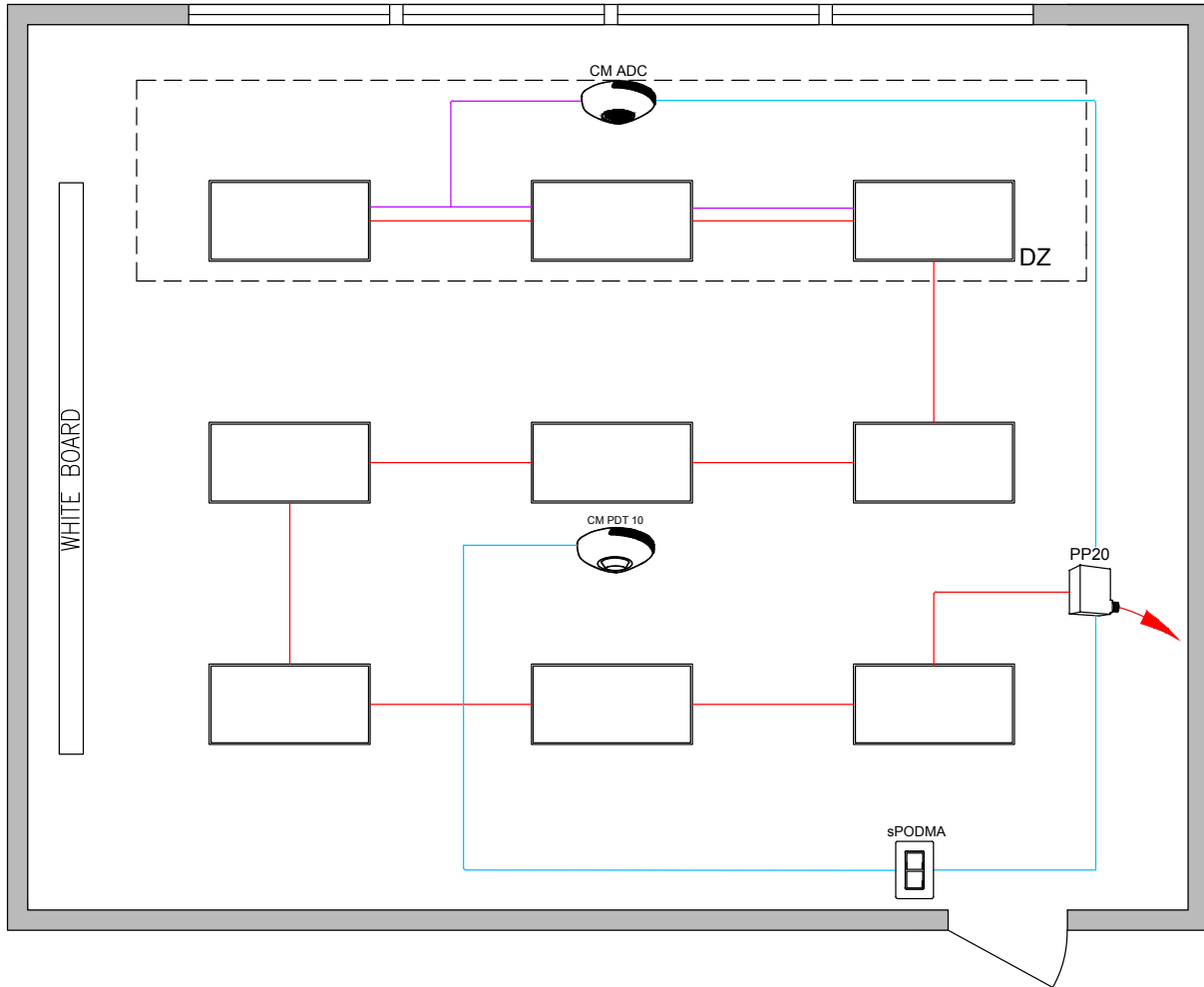
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# Classroom: With Wired SensorSwitch Control Devices

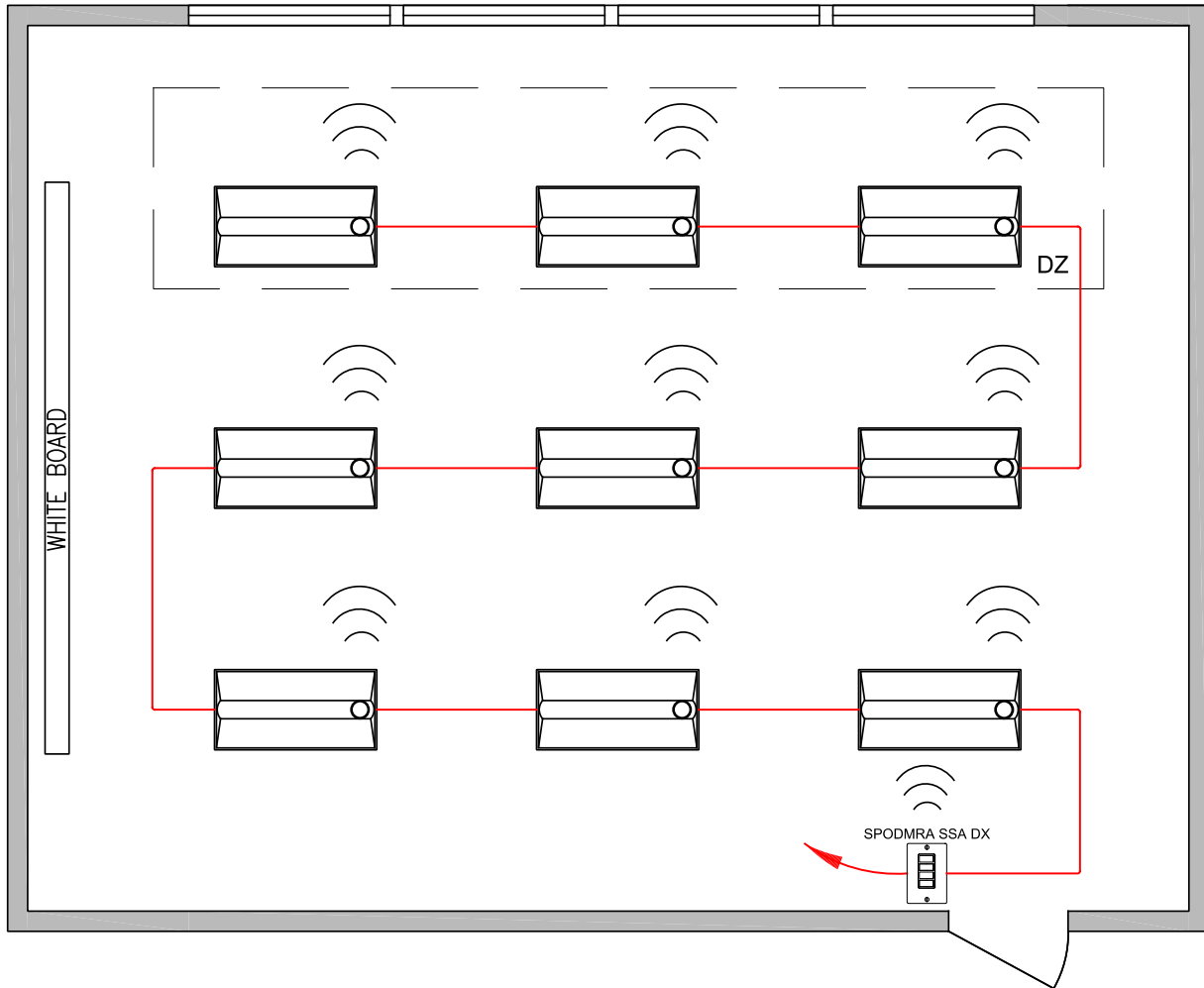


BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
1	PP20	RELAY MODULE
1	SPODMA*	ON/OFF WALL SWITCH
1	CM PDT 10	DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR
1	CM ADC	AUTO DIMMING PHOTOCCELL



DIAGRAM LEGEND	
	0-10 VDC DIMMING WIRES
	CLASS 2 LOW VOLTAGE
	LINE VOLTAGE WIRES
	LINE FEED

\*For a vacancy application, use the SPODMA SA – manual on, auto off

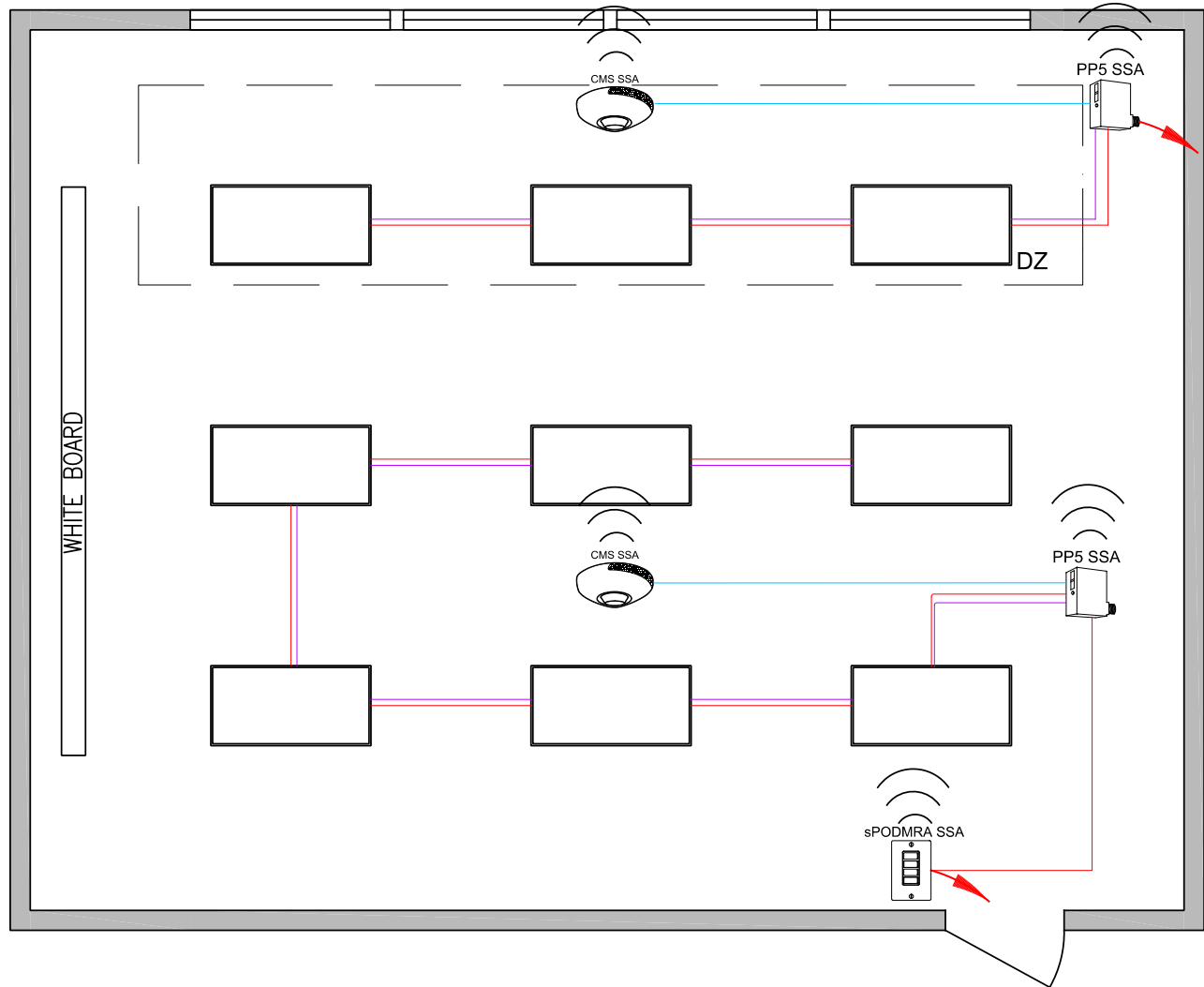
# Classroom: With Wireless SensorSwitch AIR Embedded Control Devices



BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
9	SEE NOTE	LITHONIA LIGHTING TROFFERS WITH WIRELESS EMBEDDED CONTROLS FROM SENSORSWITCH
1	SPODMRA SSA DX	WIRELESS SENSORSWITCH AIR ON/OFF AND DIMMING WALL SWITCH

Wiring Legend	
	Line Voltage Wires
	Line Power

# Classroom: With Wireless SensorSwitch AIR Control Devices

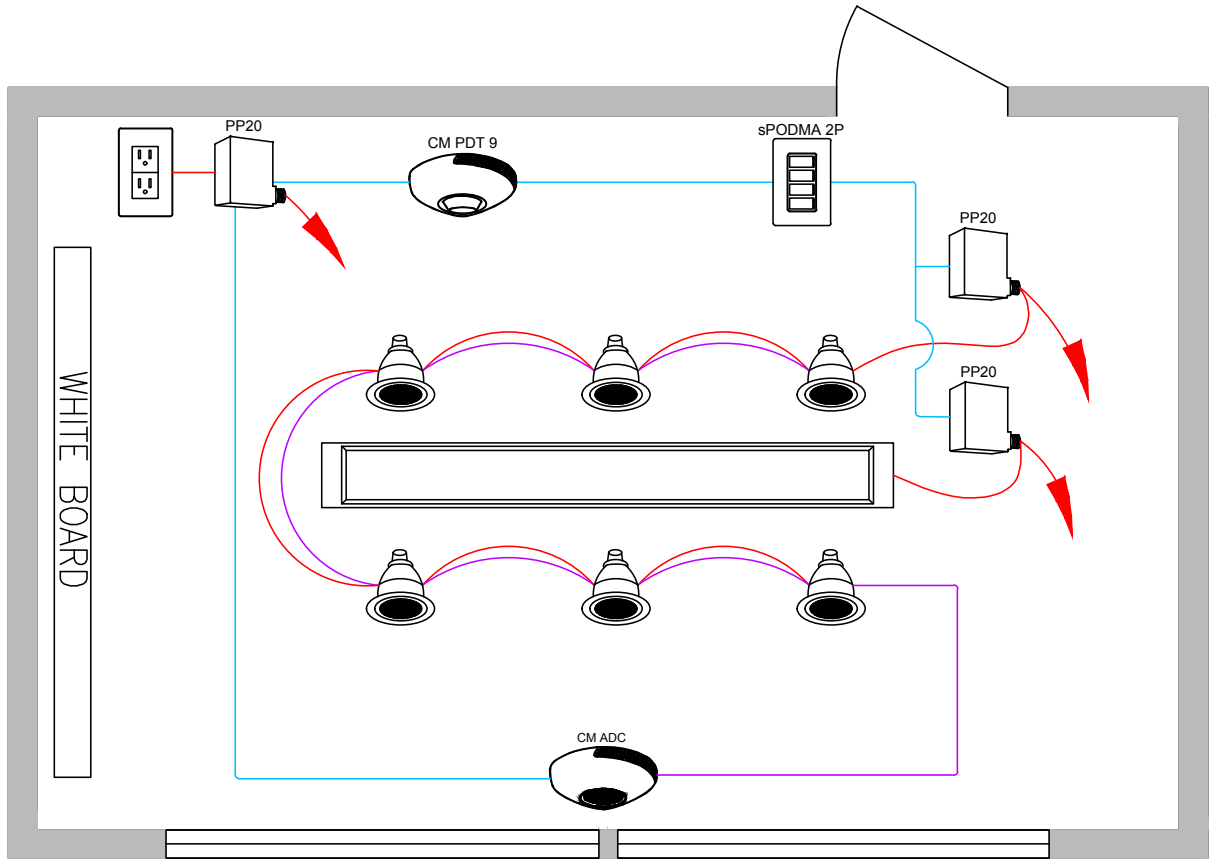


BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
2	PP5 SSA D 24V	WIRELESS 0-10V DIMMING POWER PACK
1	SPODMRA SSA DX	WIRELESS DIMMING WALL SWITCH
2	CMS SSA PDT 9	DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR





DIAGRAM LEGEND	
	0-10 VDC DIMMING WIRES
	CLASS 2 LOW VOLTAGE WIRES
	LINE VOLTAGE WIRES
	LINE FEED

Wireless SensorSwitch AIR is backwards compatible with all SensorSwitch JOT products.

# Conference Room: With Wired SensorSwitch Control Devices

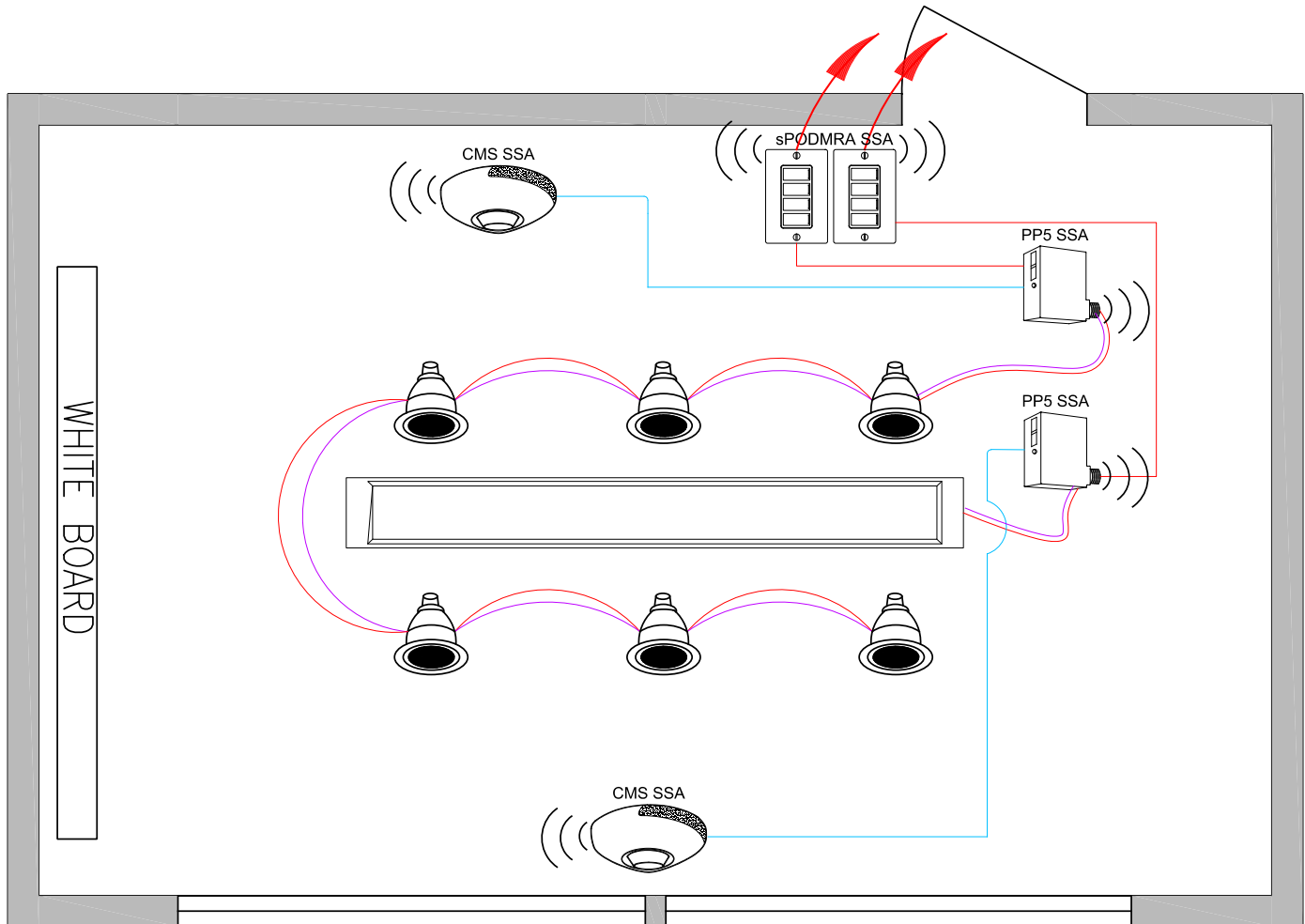


BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
3	PP20	RELAY MODULE
1	SPODMA 2P*	2 POLE ON/OFF WALL SWITCH
1	CM PDT 9	DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR
1	CM ADC	AUTO DIMMING PHOTOCELL

DIAGRAM LEGEND	
	0-10 VDC DIMMING WIRES
	CLASS 2 LOW VOLTAGE
	LINE VOLTAGE WIRES
	LINE FEED

\*For a vacancy application, use the SPODMA 2P 2SA – manual on, auto off

# Conference Room: With Wireless SensorSwitch AIR Control Devices

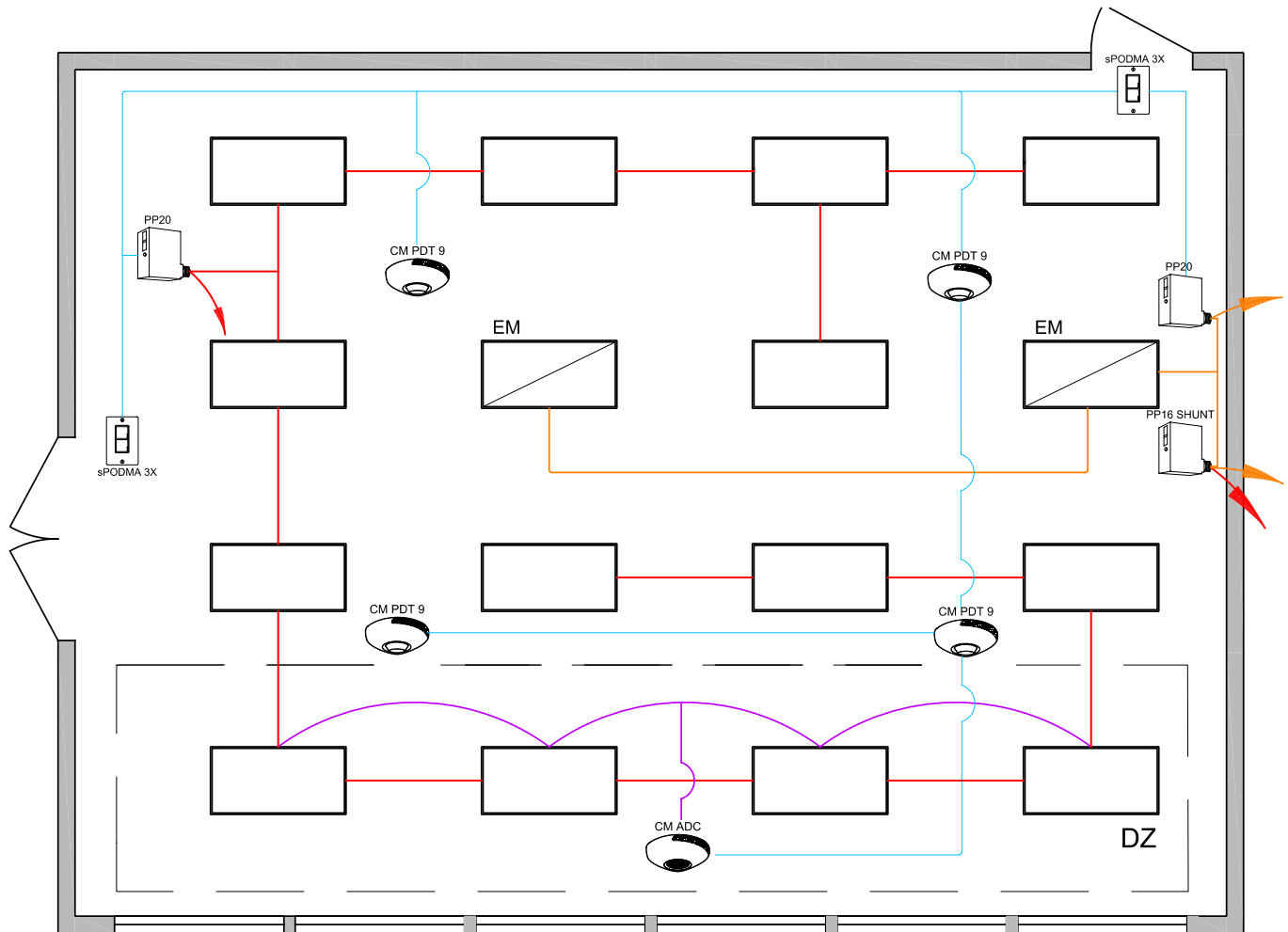


BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
2	PP5 SSA D 24V	WIRELESS 0-10V DIMMING POWER PACK
2	SPODMRA SSA DX	WIRELESS DIMMING WALL SWITCH
2	CMS SSA PDT 9	CEILING MOUNTED WIRELESS OCCUPANCY/PHOTO SENSOR
6	SEE NOTE	0-10V DIMMABLE DOWNLIGHTS
1	SEE NOTE	0-10V DIMMABLE LINEAR LUMINAIRE





DIAGRAM LEGEND	
	0-10 VDC DIMMING WIRES
	CLASS 2 LOW VOLTAGE WIRES
	LINE VOLTAGE WIRES
	LINE FEED

Wireless SensorSwitch AIR is backwards compatible with all SensorSwitch JOT products.

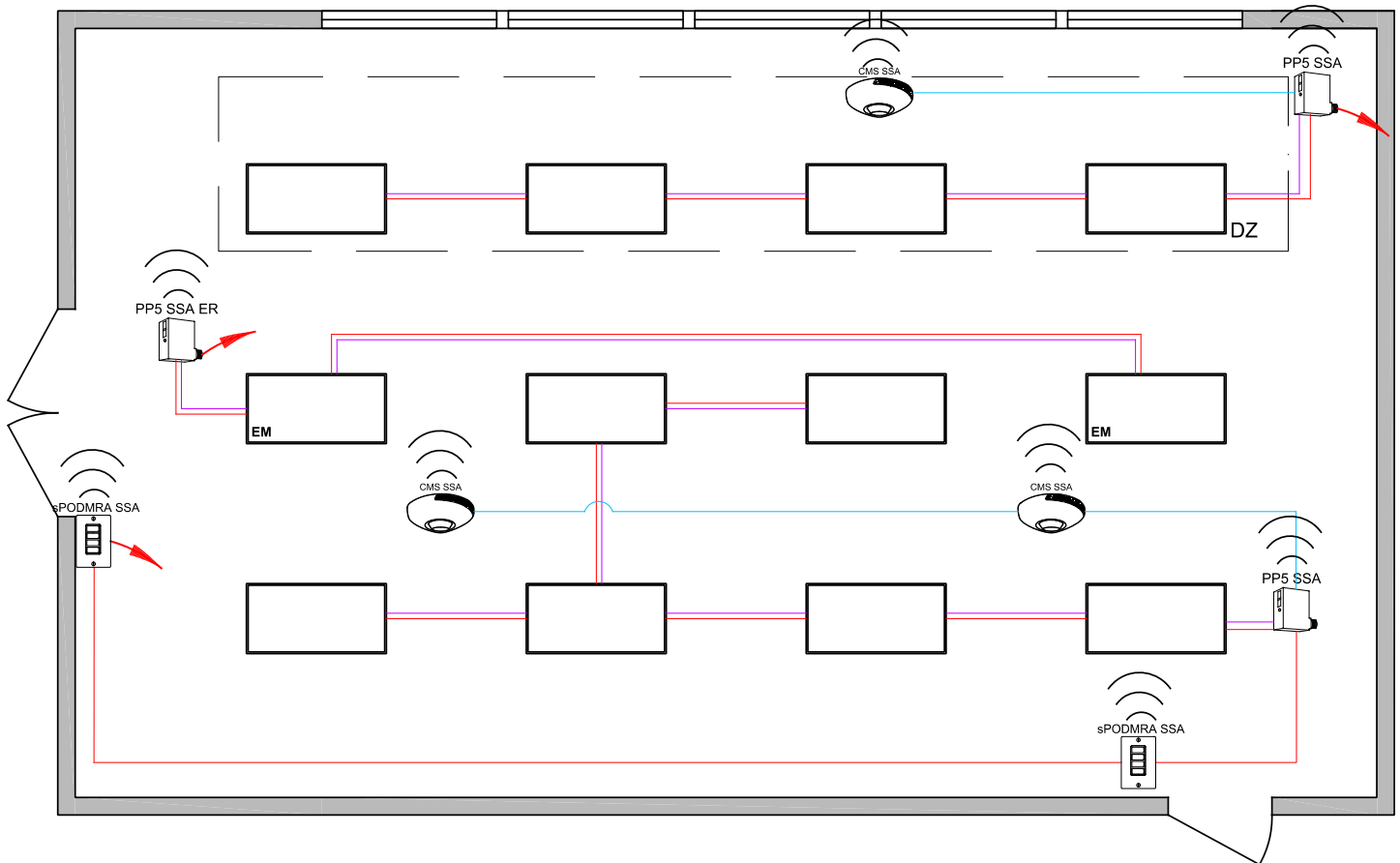
# Open Office: With Wired SensorSwitch Control Devices



BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
2	PP20	RELAY MODULE
1	PP16 SHUNT	EM SHUNT RELAY PACK
2	SPODMA 3X	ON/OFF 3-WAY SWITCH
4	CM PDT 9	DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR
1	CM ADC	AUTO DIMMING PHOTOCELL

DIAGRAM LEGEND	
	0-10 VDC DIMMING WIRES
	CLASS 2 LOW VOLTAGE WIRES
	LINE VOLTAGE WIRES
	LINE FEED

# Open Office: With Wireless SensorSwitch AIR Control Devices

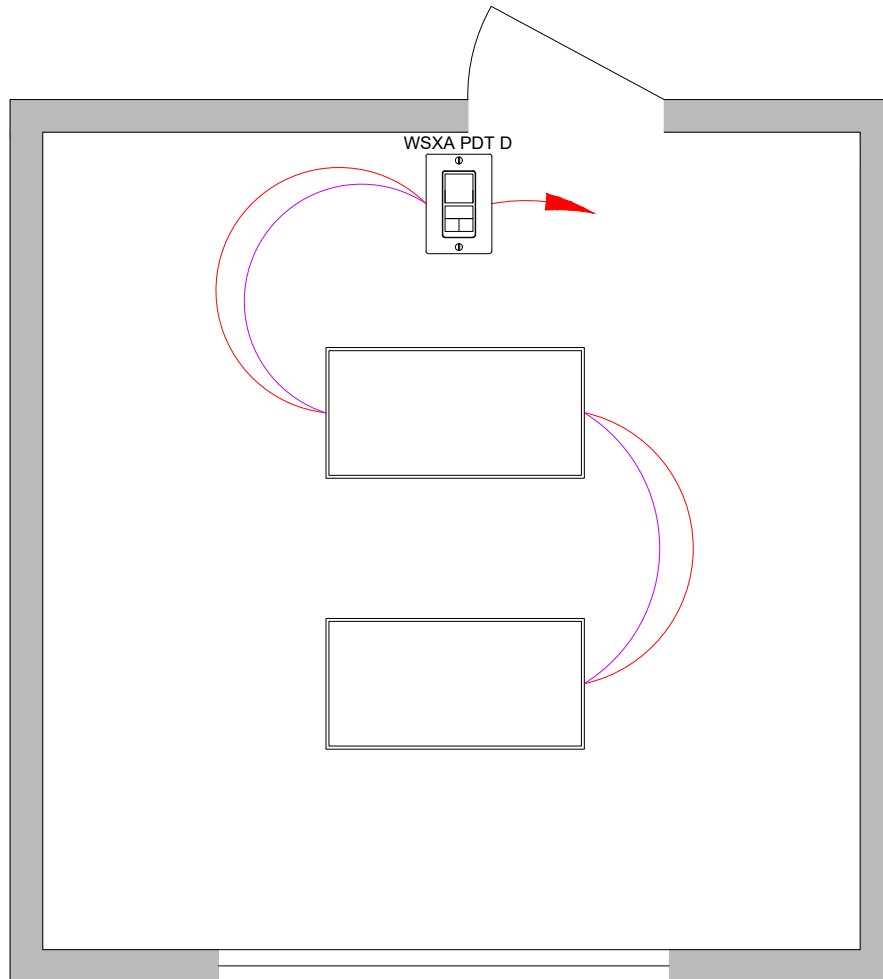






BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
2	PP5 SSA D 24V	WIRELESS 0-10V DIMMING POWER PACK
1	PP5 SSA D 24V ER	WIRELESS 0-10V EMERGENCY DIMMING POWER PACK
2	SPODMRA SSA DX	WIRELESS DIMMING WALL SWITCH
3	CMS SSA PDT 9	CEILING MOUNTED WIRELESS OCCUPANCY/PHOTO SENSOR
12	SEE NOTE	0-10V DIMMABLE TROFFERS

DIAGRAM LEGEND	
	0-10 VDC DIMMING WIRES
	CLASS 2 LOW VOLTAGE WIRES
	LINE VOLTAGE WIRES
	LINE FEED

Wireless SensorSwitch AIR is backwards compatible with all SensorSwitch JOT products.

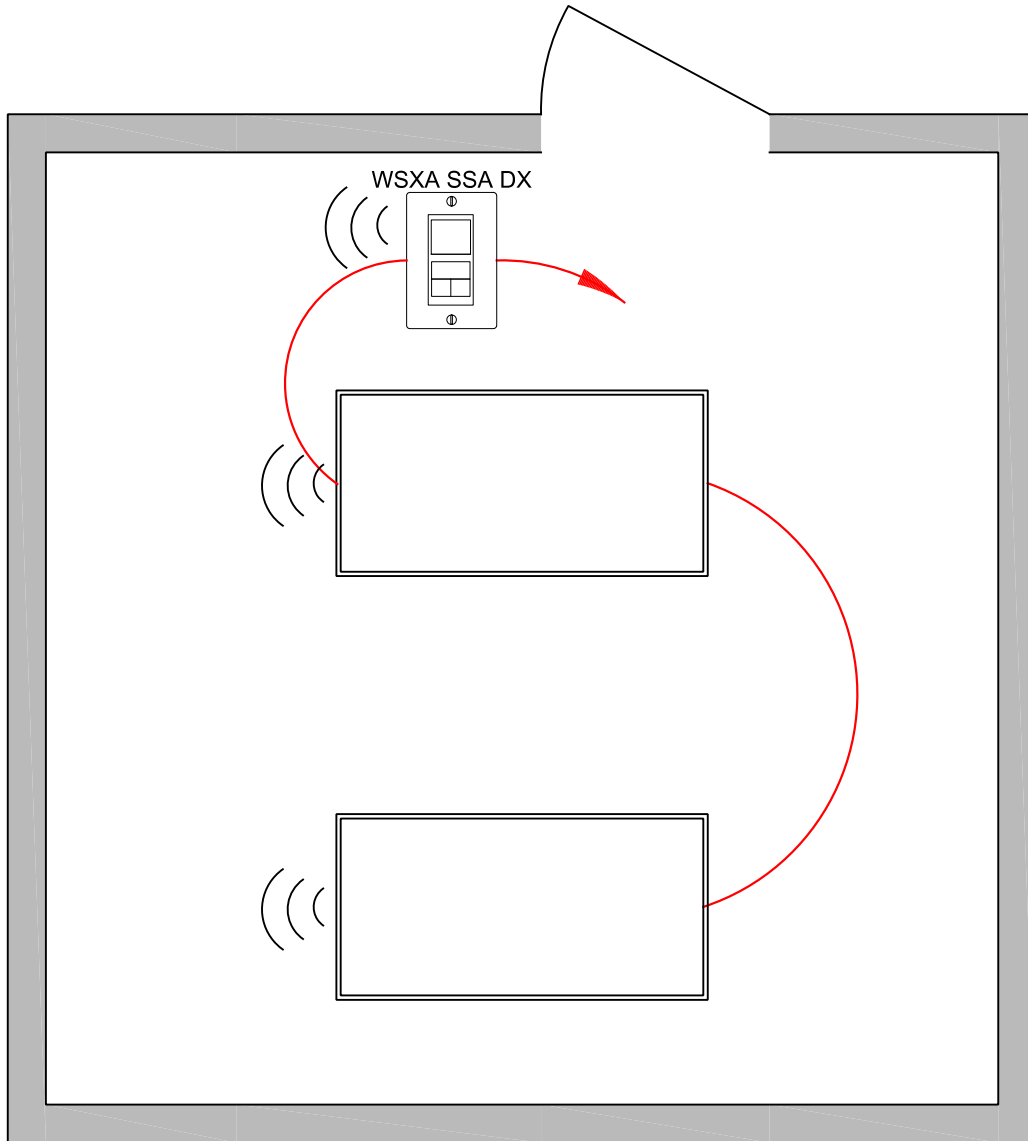
## Private Office: With Wired SensorSwitch Control Devices





BILL OF MATERIAL			DIAGRAM LEGEND	
QTY	PRODUCT #	DESCRIPTION		
2	SEE NOTE	LITHONIA LIGHTING TROFFERS WITH STANDALONE EMBEDDED CONTROLS FROM SENSORSWITCH		0-10 VDC DIMMING WIRES
				CLASS 2 LOW VOLTAGE WIRES
1	WSXA PDT D	SENSORSWITCH WALL SWITCH WITH OCCUPANCY SENSOR AND DIMMING		LINE VOLTAGE WIRES
				LINE FEED

Contact your local lighting Agent or visit [www.sensorswitch.com](http://www.sensorswitch.com) for more information about luminaires available with wired standalone embedded controls by SensorSwitch.

# Private Office: With Wireless SensorSwitch AIR Embedded Control Devices

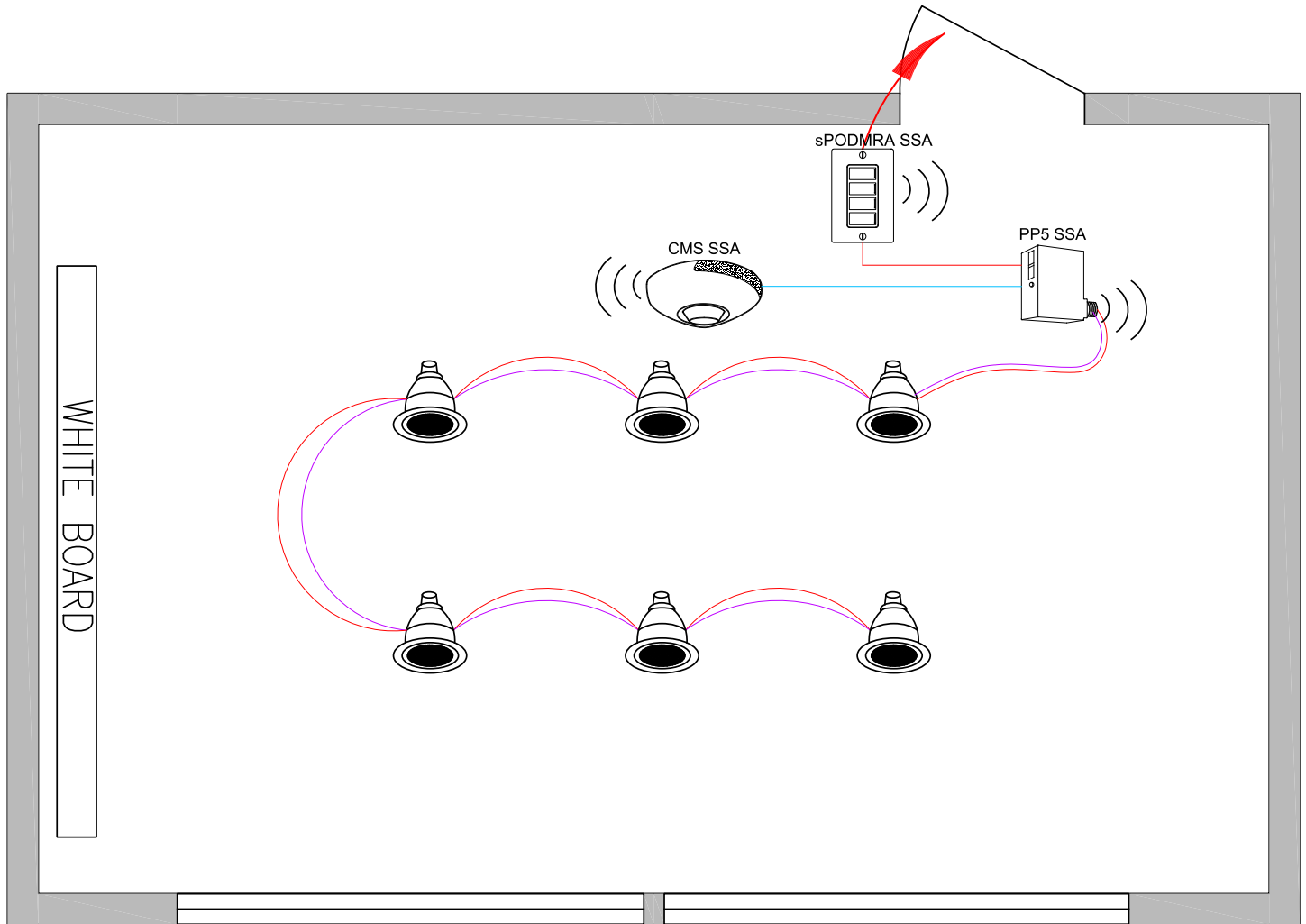


BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
1	WSXA SSA DX	WIRELESS OCCUPANCY SENSOR DIMMING WALL SWITCH
1	SEE NOTE	LITHONIA LIGHTING TROFFERS WITH WIRELESS STANDALONE EMBEDDED CONTROLS FROM SENSORSWITCH

DIAGRAM LEGEND	
	LINE VOLTAGE WIRES
	LINE FEED

Contact your local lighting Agent or visit [www.sensorswitch.com](http://www.sensorswitch.com) for more information about luminaires available with wireless standalone embedded controls by SensorSwitch.

# Private Office: With Wireless SensorSwitch AIR Control Devices

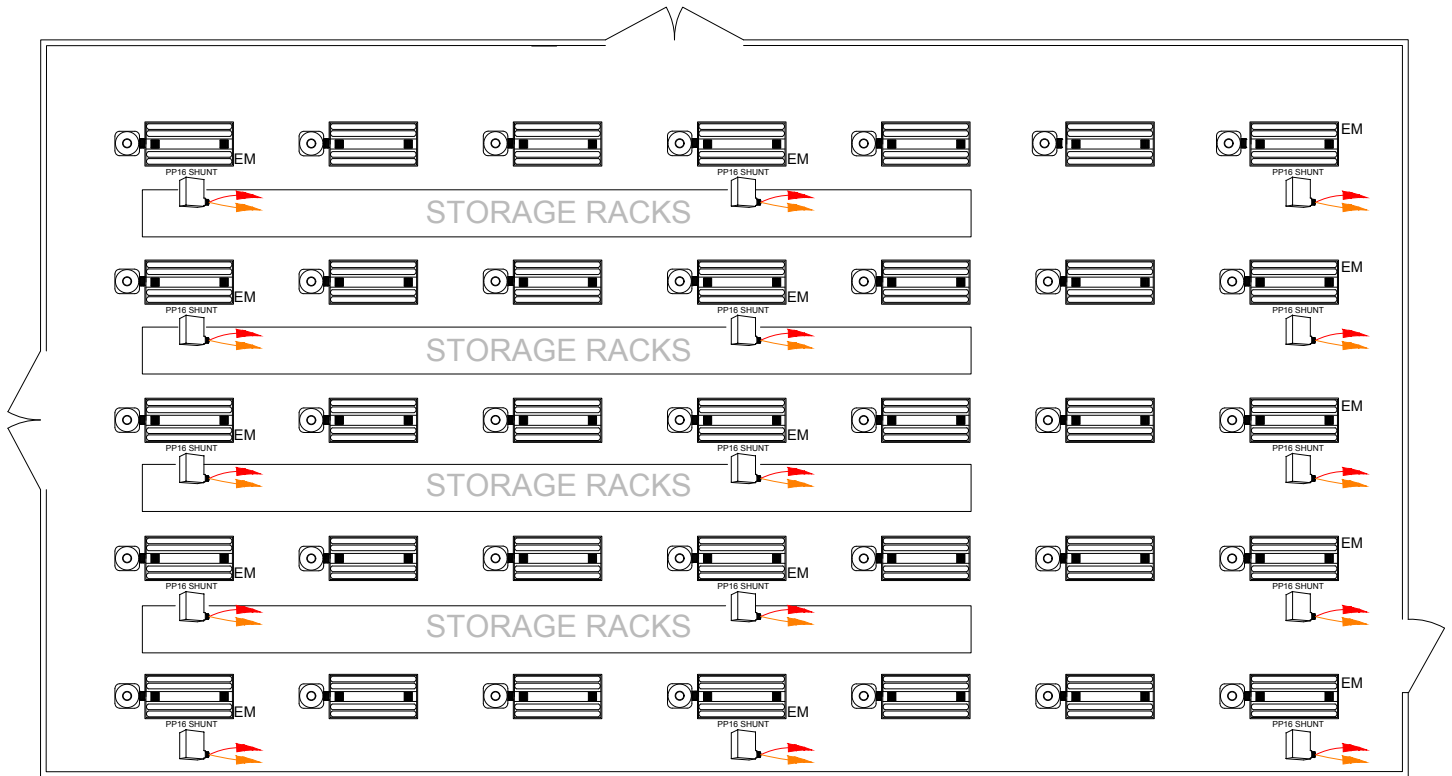


BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
1	PP5 SSA D 24V	WIRELESS 0-10V DIMMING POWER PACK
1	SPODMRA SSA DX	WIRELESS DIMMING WALL SWITCH
1	CMS SSA PDT 9	CEILING MOUNTED WIRELESS OCCUPANCY SENSOR
6	SEE NOTE	0-10V DIMMABLE DOWNLIGHTS

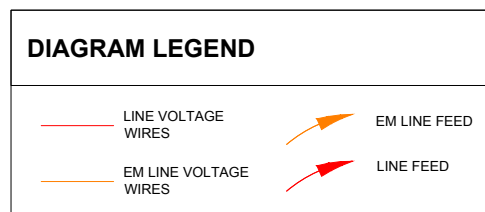
DIAGRAM LEGEND	
	0-10 VDC DIMMING WIRES
	CLASS 2 LOW VOLTAGE WIRES
	LINE VOLTAGE WIRES
	LINE FEED

Wireless SensorSwitch AIR is backwards compatible with all SensorSwitch JOT products.

# Warehouse: With Wired SensorSwitch Embedded Control Devices

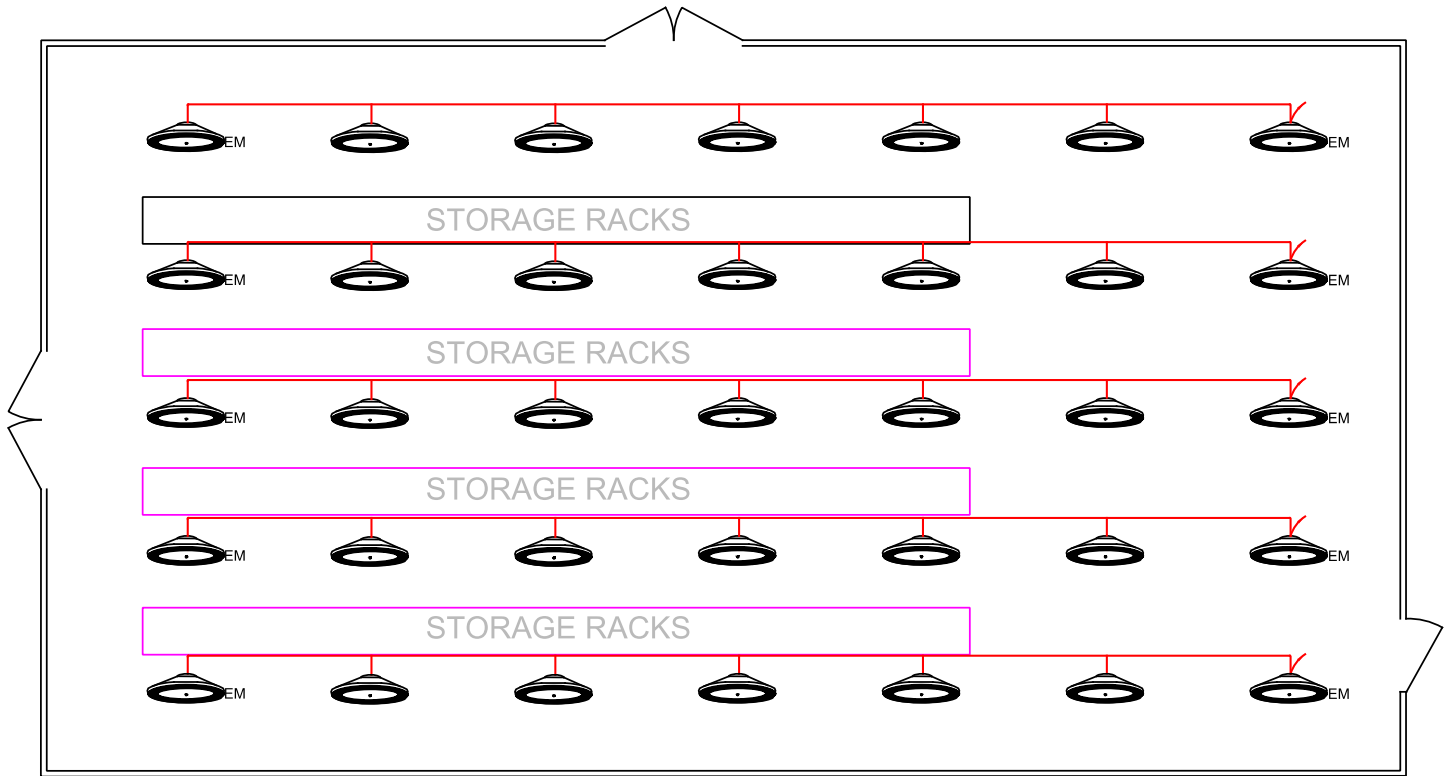


BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
15	PP16 SHUNT	EM SHUNT RELAY PACK
35	SEE NOTE	LITHONIA LIGHTING HIGH BAYS WITH STANDALONE EMBEDDED CONTROLS FROM SENSORSWITCH (LSXR)





Contact your local lighting Agent or visit [www.sensorswitch.com](http://www.sensorswitch.com) for more information about luminaires available with wired standalone embedded controls by SensorSwitch.

# Warehouse: With Wired SensorSwitch Field Installable Controls



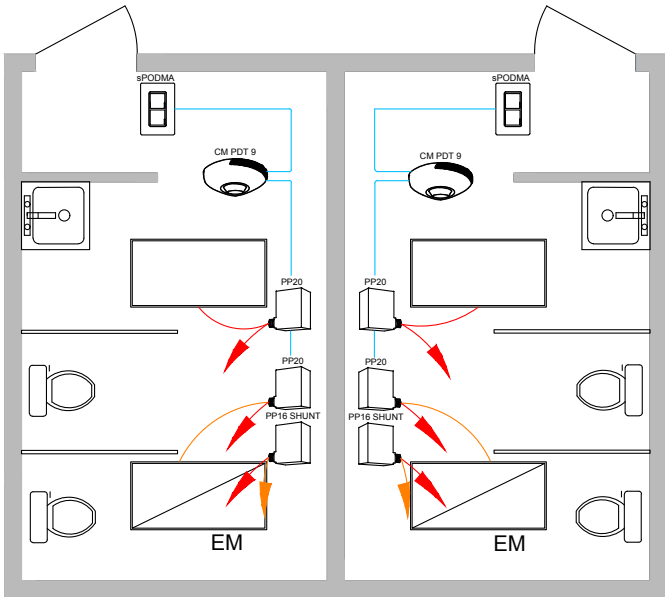
BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
25	SEE NOTE	LITHONIA REBL HIGH BAY WITH WIRED STANDALONE FIELD INSTALLABLE CONTROLS BY SENSORSWITCH (TLS TWIST-TO-LOCK SENSOR)
10	SEE NOTE	LITHONIA REBL HIGH BAY WITH WIRED STANDALONE FIELD INSTALLABLE CONTROLS BY SENSORSWITCH (TLS TWIST-TO-LOCK SENSOR) AND EMERGENCY BATTERY BACKUP

DIAGRAM LEGEND	
	LINE VOLTAGE WIRES
	LINE FEED

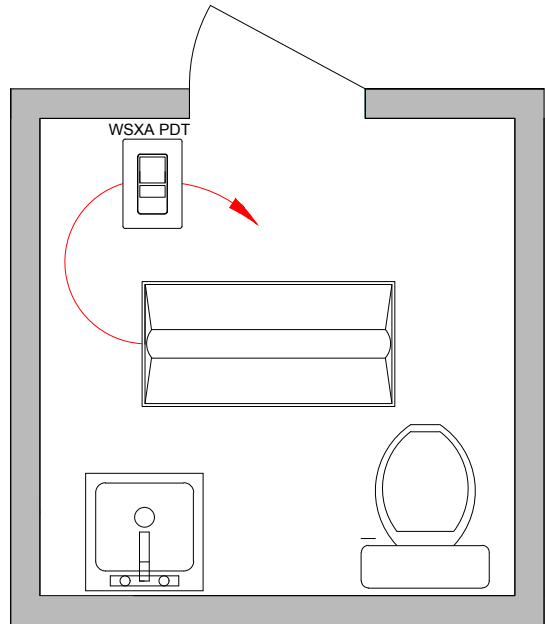
Includes emergency option. For a battery backup option, a dedicated ER circuit is not necessary.

# Restrooms: With Wired SensorSwitch Control Devices

## Public Restroom



## Private Restroom



BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
4	PP20	RELAY MODULE
2	PP16 SHUNT	EM SHUNT RELAY PACK
2	CM PDT 9	DUAL TECHNOLOGY CEILING MOUNT OCCUPANCY SENSOR
2	SPODMA	ON/OFF SWITCH

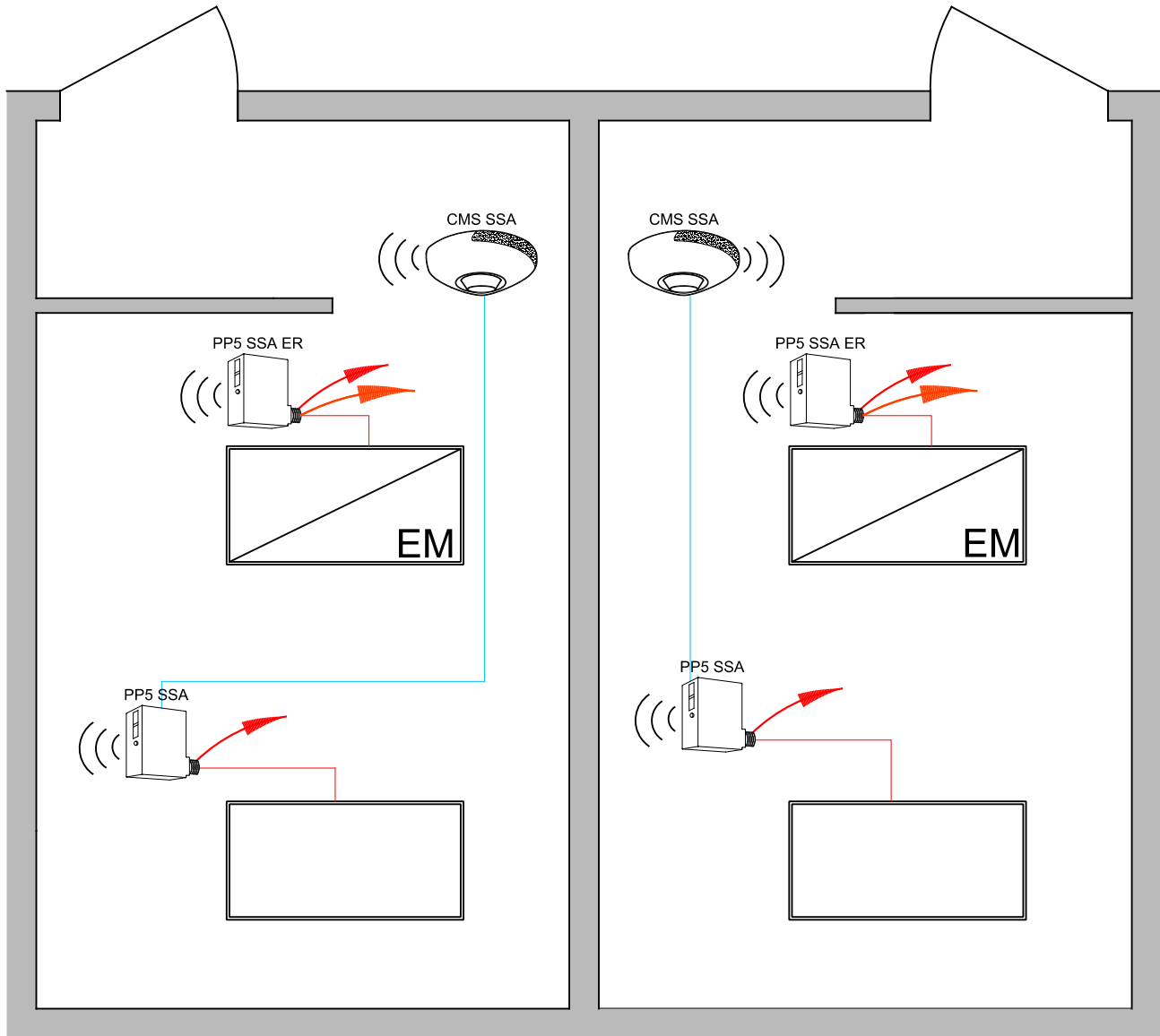
DIAGRAM LEGEND	
	CLASS 2 LOW VOLTAGE
	LINE VOLTAGE WIRES
	LINE FEED
	EM LINE FEED

BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
1	WSXA PDT	WALL SWITCH WITH OCCUPANCY SENSOR





DIAGRAM LEGEND	
	LINE VOLTAGE WIRES
	LINE FEED

Use the WSXA 2P to control lighting and exhaust fan with a single device.

# Public Restrooms: With Wireless SensorSwitch AIR Control Devices



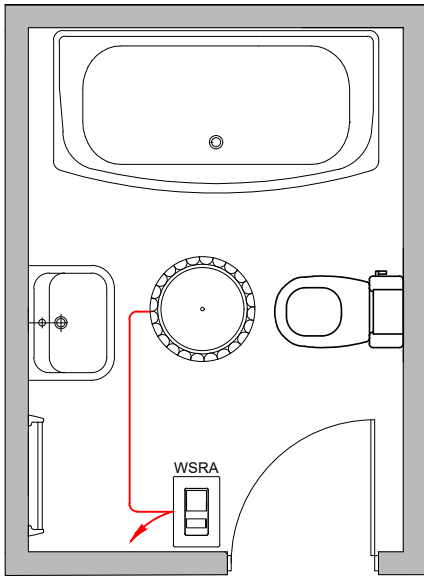
BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
2	PP5 SSA D 24V	WIRELESS 0-10V DIMMING POWER PACK
2	PP5 SSA D 24V ER	WIRELESS 0-10V EMERGENCY DIMMING POWER PACK
1	CMS SSA PDT 9	CEILING MOUNTED WIRELESS OCCUPANCY/PHOTO SENSOR
4	SEE NOTE	0-10V DIMMABLE TROFFER

DIAGRAM LEGEND	
	Low VOLTAGE WIRES
	LINE VOLTAGE WIRES
	LINE FEED
	EM LINE FEED



Wireless SensorSwitch AIR is backwards compatible with all SensorSwitch JOT products.

# Residential: With Wired SensorSwitch Control Devices

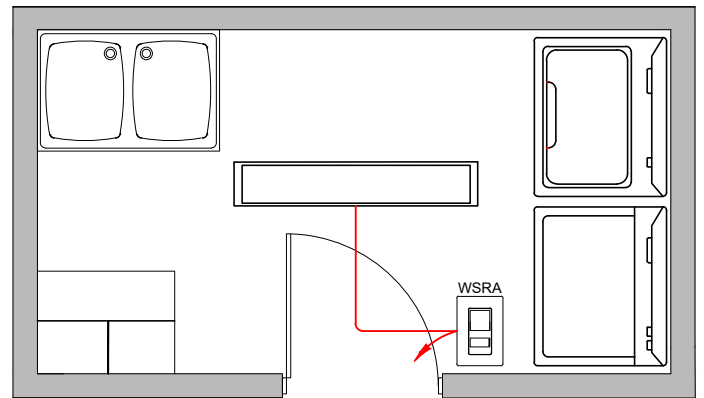
## Bathroom





BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
1	WSRA	AUTO ON /AUTO OFF WALL OCCUPANCY SWITCH

DIAGRAM LEGEND	
	LINE VOLTAGE WIRES
	LINE FEED

## Laundry Room



BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
1	WSRA	AUTO ON /AUTO OFF WALL OCCUPANCY SWITCH

DIAGRAM LEGEND	
	LINE VOLTAGE WIRES
	LINE FEED

Use the WSXA 2P to control lighting and exhaust fan with a single device.

# Residential: Kitchen with Wired SensorSwitch Control Devices

## Kitchen

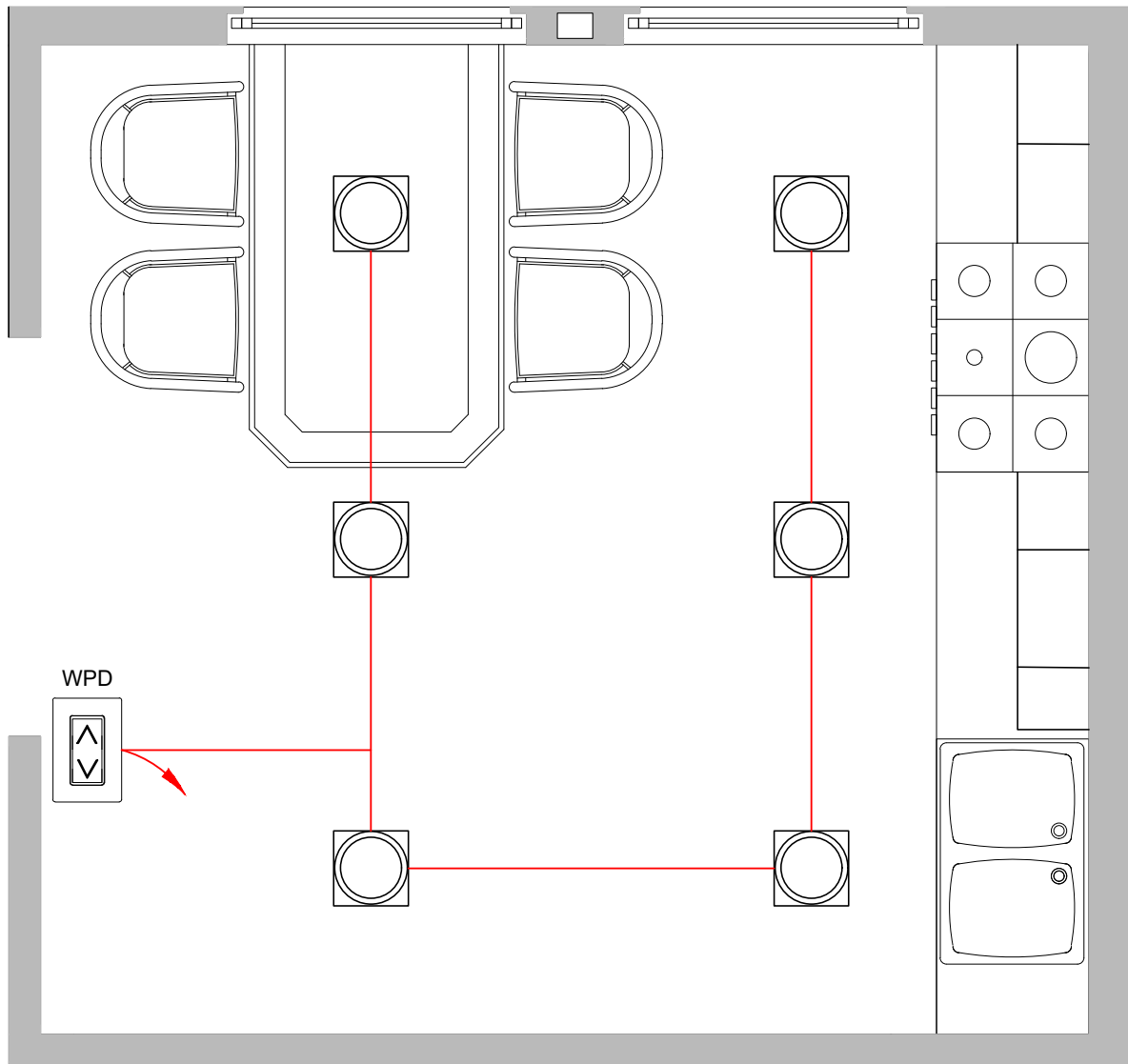




DIAGRAM LEGEND	
	LINE VOLTAGE WIRES
	LINE FEED

BILL OF MATERIAL		
QTY	PRODUCT #	DESCRIPTION
1	WPD	RAISE/LOWER PHASE DIMMER WALL SWITCH



# Performance You Can Count On

[www.sensorswitch.com](http://www.sensorswitch.com)



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