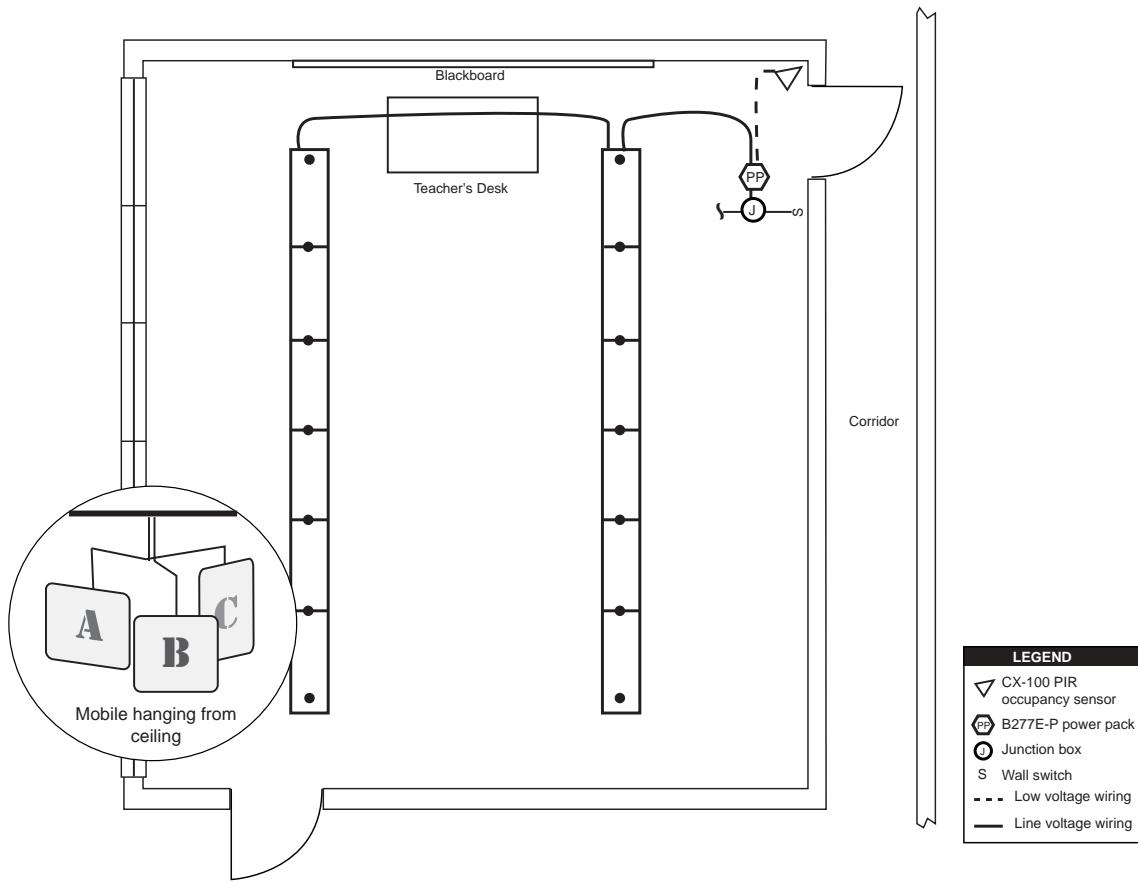


C1.0.5 Classroom (hanging mobiles): occupancy sensing

Control Needs	Solution	Application Description
Automatically turn lights ON/OFF based on occupancy	Corner-mounted passive infrared occupancy sensor (CX series)	Space use: Classroom activities Dimensions: 28' x 30' Ceiling height: 10'
Manual override OFF	Wall switch	Windows: Windows along one wall providing view to exterior and ventilation
Occupancy-based control of HVAC system	Isolated relay on occupancy sensor	Window blinds: Horizontal blinds Skylights: None
		Lighting Pendant mounted indirect/direct luminaires with isolated center lamp optics using three T5 lamps and 2-lamp, tandem wired 277 volt electronic ballasts

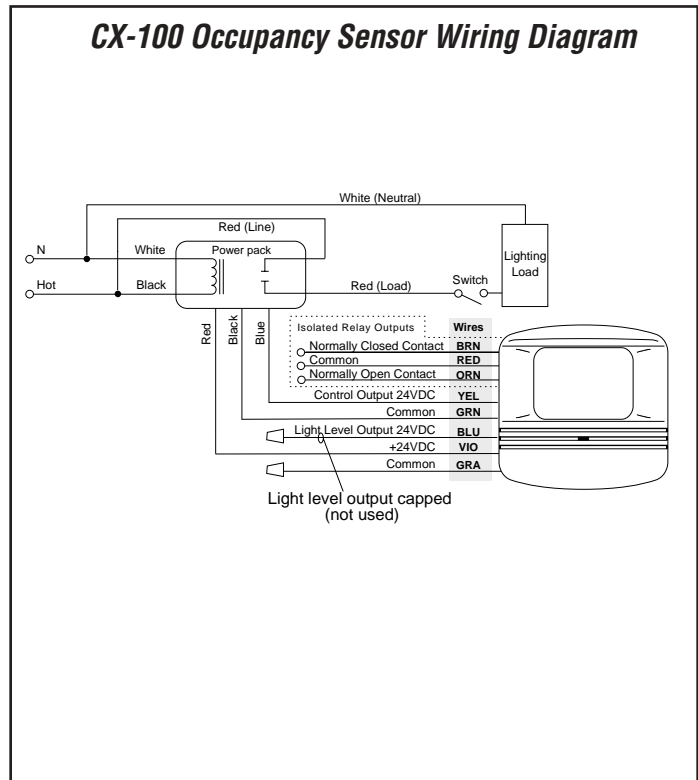
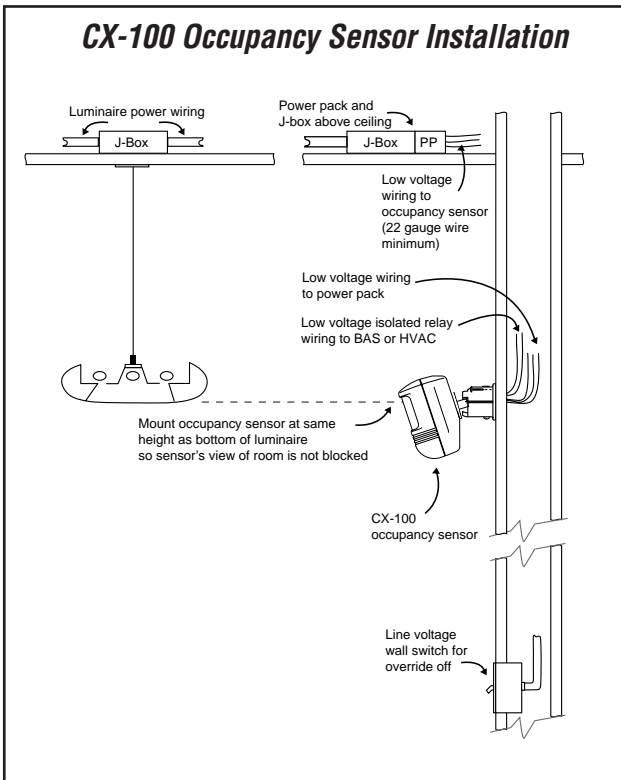
Design Considerations

The CX-100 occupancy sensor automatically turns lights off when the classroom is unoccupied, and turns lights on upon occupancy. It is positioned near the teacher's desk to ensure detection when classes are not in session and the teacher is at the desk. The sensor is corner-mounted to prevent a view out the doorway that might otherwise result in false activations. A standard wall switch allows users to manually override lights off. While in most classrooms, the DT Dual Technology occupancy sensor will provide the best coverage and occupancy detection, the CX-100 passive infrared sensor is best for this application because of the presence of hanging objects.



C1.0.5 Installation Notes

1. Mount CX-100 occupancy sensor at same height as luminaire so that sensor view is not blocked.
2. Mount CX-100 sensor in corner and aim at opposing corner to provide a full view of the room but not the corridor.
3. CX-100 is shipped with a factory preset time delay of 18 minutes, the recommended minimum for classrooms and with sensitivity setting at maximum. Refer to installation instructions if adjustments are necessary.
4. Use a minimum of 22 gauge wire for low voltage wiring. See Technical Bulletin TB-124 on Voltage Loss at www.wattstopper.com.
5. Use stainless steel wall switch plates to facilitate cleaning and minimize damage from impact.
6. CX-100 sensor isolated relay can provide status information to the BAS and/or control HVAC loads.



Equipment Schedule

Catalog No.	Qty	Description
CX-100	1	Passive infrared occupancy sensor, isolated relay, wide angle lens
B277E-P	1	Power pack, 277 VAC, 60 Hz
AC1 Series	1	Wall switch, Pass & Seymour/legrand, AC1 series, single pole
SL1	1	Wall plate, Pass & Seymour/legrand, type 430, stainless steel finish, single-gang