

OF-CR1.0 Large Conference Room: occupancy sensing • dimming

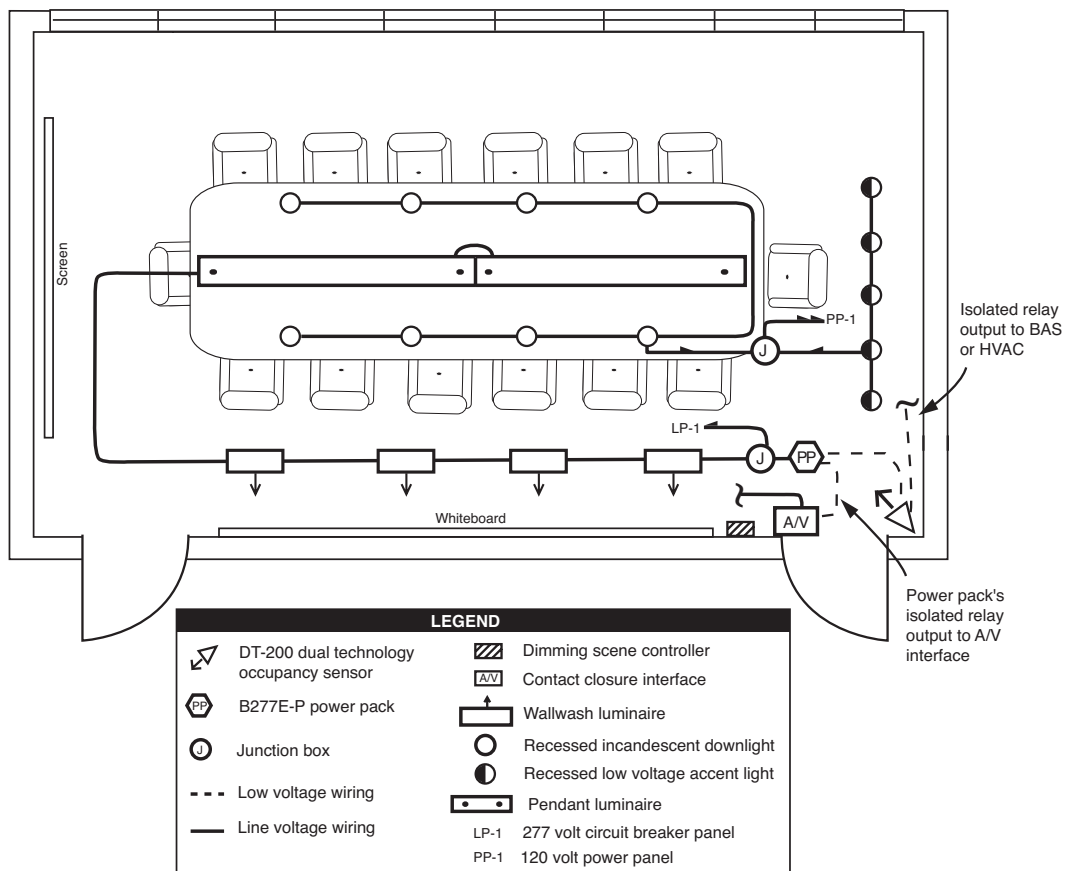
Control Needs	Solution	Application Description
Automatically turn lights ON/OFF based on occupancy	Corner-mounted dual technology occupancy sensor (DT series) with A/V interface	Space use: Meetings, presentations, group projects Dimensions: 30' x 15' Ceiling height: 10' Windows: Windows along one wall providing view to exterior Window blinds: Horizontal blinds
Manual ON/Manual override OFF/DIM	Architectural dimming system	
Occupancy-based control of HVAC system	Isolated relay on occupancy sensor	
Preset scene control	Architectural dimming system	

Lighting

Pendant mounted indirect luminaires using T8 lamps and electronic dimming ballasts, and 50 watt PAR 20 incandescent downlights over the conference room table. Recessed 40 watt long twin tube fluorescent wallwash luminaires lighting whiteboard and low voltage 20 watt MR-16 incandescent accents lighting artwork.

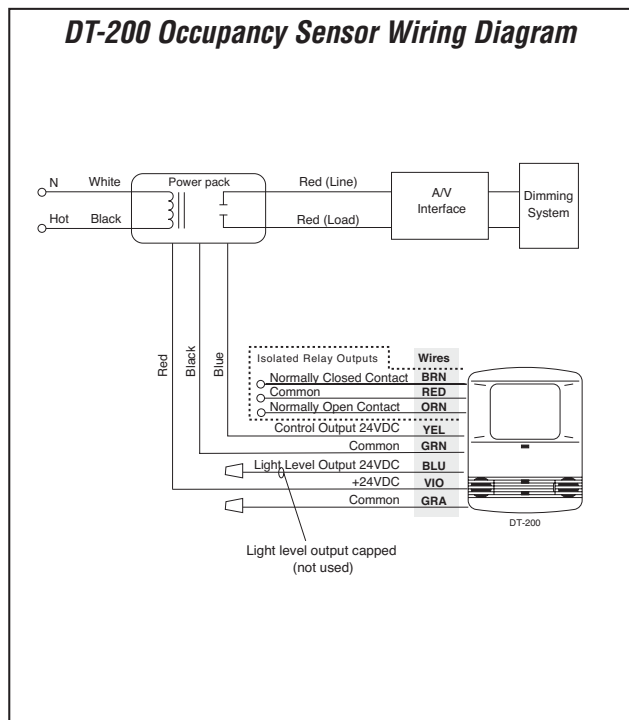
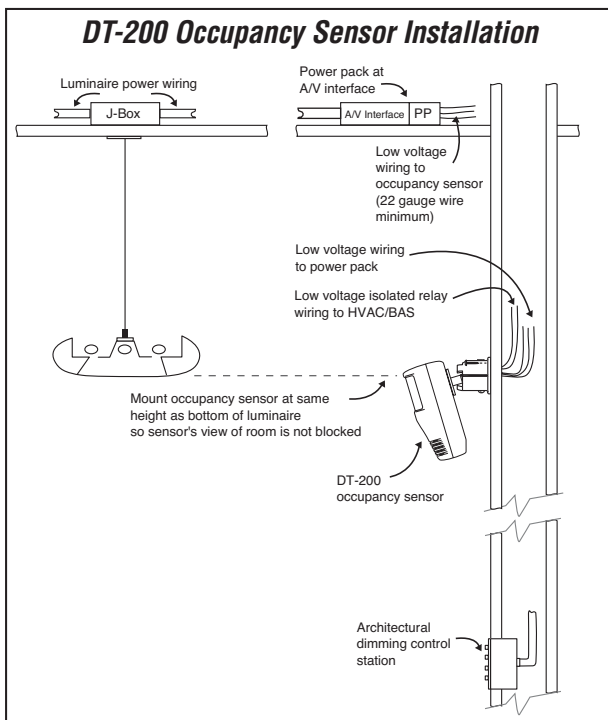
Design Considerations

The DT-200 Dual Technology occupancy sensor is used to automatically turn lights off when the room is unoccupied and turn lights on upon occupancy. The sensor is mounted in the corner, to prevent a view out the doorway that might otherwise result in false activations. Upon occupancy, a signal is sent to the HVAC system using the isolated relay in the occupancy sensor and to the architectural dimming system using the contact closure in the power pack. Then during occupied times, the architectural dimming system is used for scene setting.



OF-CR1.0 Installation Notes

1. Mount DT-200 in corner and aim at opposing corner to provide a full view of the room but not out the door.
2. Mount DT-200 occupancy sensor at same height as luminaire so that sensor view is not blocked.
3. DT-200 is shipped with a factory preset time delay of 18 minutes, the recommended minimum for conference rooms and with sensitivity setting at maximum. Refer to installation instructions if adjustments are necessary.
4. DT-200 sensor's isolated relay can provide status information to the BAS and/or control HVAC loads.
5. Connect power pack's isolated contact to A/V interface. Confirm wiring diagram with dimming system manufacturer.
6. Configure dimming system to go to OFF preset scene when space is unoccupied and to ON scene when occupied.



Equipment Schedule

Catalog No.	Qty	Description
DT-200	1	Dual technology occupancy sensor, isolated relay, wide angle lens
B277E-P	1	Power pack, 277 VAC, 60 Hz
A/V Interface	1	Contact closure for dimming system (by dimming system manufacturer)
Dimming System	1	Multi-scene preset dimming system (by dimming system manufacturer)