






Large Private Office

Title 24 Part 6 2022 Compliant

Dimming with NX Distributed Intelligence

BILL OF MATERIALS

NXHNB2 - NX Network Bridge Module for networking rooms together
NXRFX2-1RD-UNV - NX Room Controller 1 relay on/off for receptacle or 0-10 volt dimming for lighting
NXSMDT-OMNI - NX Occupancy/Daylight Sensor, 24V, Ceiling Mount, PIR and Ultrasonic, 360°, 2,000 Sq. Ft.
NXSW2-ORLO-WH - NX Digital Switch Station, On/Raise/Lower/Off, White

QTY	SYMBOL LIST
1	 NETWORK BRIDGE
1	 ROOM CONTROLLER 1 RELAY
1	 ROOM CONTROLLER 2 RELAYS
1	 OCCUPANCY/DAYLIGHT SENSOR
1	 SWITCH-ON/OFF/RAISE/LOWER

CODE REQUIREMENTS

130.1(a): Manual Area Controls

130.1(b): Multilevel Lighting Controls

Table 130.1-A: Continuous Dimming 10-100 %

130.1(c): Shut -Off Controls

130.1(d): Automatic Daylight Responsive

130.1(e): Demand Response Controls Building > 4000 Watts

110.12 (a): 1.B responding to signal from a certified Virtual End Node

130.1(f): Control Interactions

130.5(d): Controlled Receptacles

SEQUENCE OF OPERATION

1. Lighting Partial On to 50% and controlled receptacles auto On when occupancy detected.
2. Manual On/Off/Dim lighting with dimmer switch.
3. Lighting in primary and secondary daylight zone will continuously dim based on daylight contribution to maintain a consistent task level.
4. Auto off all lighting and controlled receptacles within 20 minutes of occupants leaving.

DESIGN CONSIDERATIONS

- BMS Integration and Demand Response functions are enabled by using a NX bridge for connectivity.
- System Configuration Tools:
 - Standalone rooms use the NX Lighting Controls APP
 - Networked rooms NX Area Controller (NXAC)

