

Small Conference Room

Title 24 Part 6 2022 Compliant

Dimming with NX Distributed Intelligence

BILL OF MATERIALS

NXHNB2 - NX Network Bridge Module for networking rooms together
NXRCFX2-1RD-UNV - NX Room Controller 1 relay on/off for receptacle or 0-10 volt dimming for lighting
NXRCFX2-2RD-UNV - NX Room Controller with 2 relays with 0-10 volt dimming
NXSMDT-OMNI - NX Occupancy/Daylight Sensor, 24V, Ceiling Mount, PIR and Ultrasonic, 360°, 2,000 Sq. Ft.
NXSW2-SS-WH - NX Digital Scene Switch, 6 Buttons, 4 Presets, Raise/Lower, White

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(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

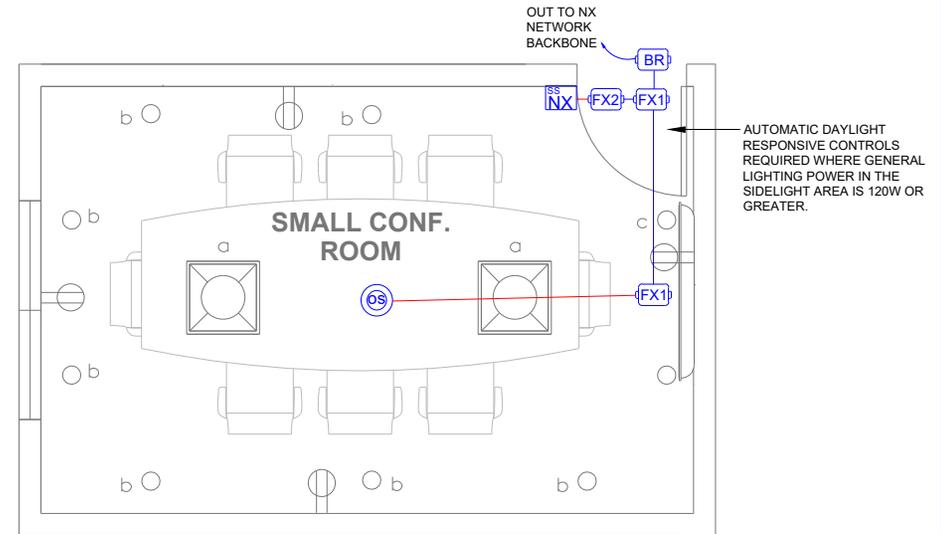
SEQUENCE OF OPERATION

1. General lighting (a) Partial On to 50% and controlled receptacles Auto On when occupancy detected.
2. Manual On/Off/Dim general lighting (a) and down lighting (b, c) with scene switches.
3. Scene settings
 - General Lighting (a) 100%, (b) 0%, (c) 0%,
 - Video (a) 0%, (b) 75%, (c) 50%,
 - Conferencing (a) 50%, (b) 50%, (c) 25%,
 - All Off (a) 0%, (b) 0%, (c) 0%,
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 (Apple or Android)
 - Networked rooms NX Area Controller (NXAC)

QTY	SYMBOL	LIST
1		NETWORK BRIDGE
2		ROOM CONTROLLER 1 RELAY
1		ROOM CONTROLLER 2 RELAYS
1		OCCUPANCY/DAYLIGHT SENSOR
1		SWITCH-SCENE



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