

Classroom

Title 24 Part 6 2022 Compliant
Dimming with NX Distributed Intelligence

BILL OF MATERIALS

- NXHNB2** - NX Network Bridge Module for networking rooms together
- NXRFX-2RD-UNV** - The NX Room Controller 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(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

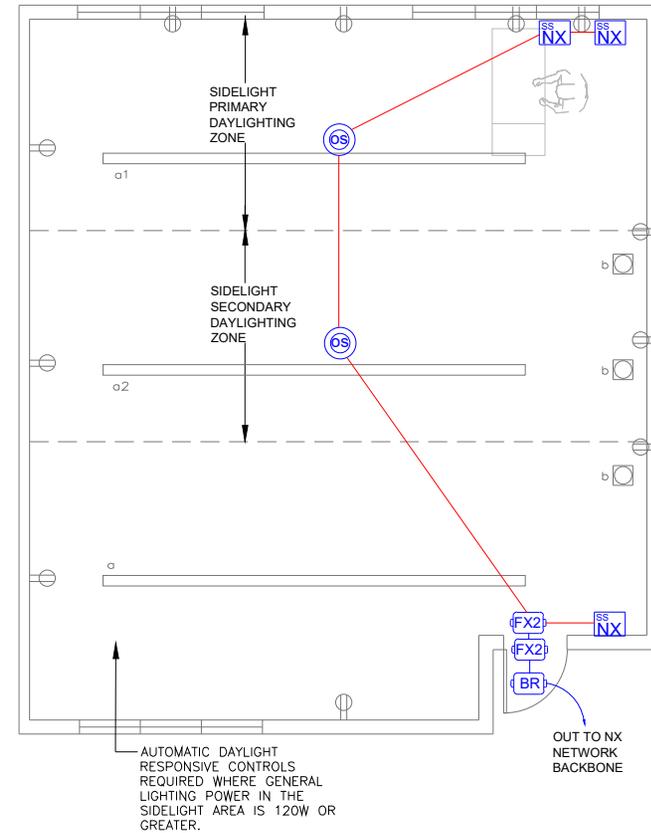
SEQUENCE OF OPERATION

1. General lighting (a, a1, a2) Partial On to 50% when occupancy detected.
2. Manual On/Off/Dim general lighting (a, a1, a2) and down lighting (b) with scene switches.
3. Scene settings
 - General Lighting (a, a1, a2) 100%, (b) 0%,
 - Projection (a, a1, a2) 0%, (b) 75%
 - Conferencing (a, a1, a2) 50%, (b) 50%,
 - All Off (a, a1, a2) 0%, (b) 0%
4. Lighting in primary (a1) and secondary (a2) daylight zones will continuously dim based on daylight contribution to maintain a consistent task level.
5. Auto off all lighting 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	(BR) NETWORK BRIDGE
2	(FX2) ROOM CONTROLLER 2 RELAYS
3	(SS) SWITCH-SCENE
2	(OS) OCCUPANCY/DAYLIGHT SENSOR



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