Classroom

Title 24 Part 6 2022 Compliant
Dimming with NX Distributed Intelligence

QTY	SYMBOL LIST
1	BR NETWORK BRIDGE
2	FX2 ROOM CONTROLLER 2 RELAYS
3	SS NX SWITCH-SCENE
2	OS OCCUPANCY/DAYLIGHT SENSOR

BILL OF MATERIALS

NXHNB2 - NX Network Bridge Module for networking rooms together
NXRCFX-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, 360º, 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

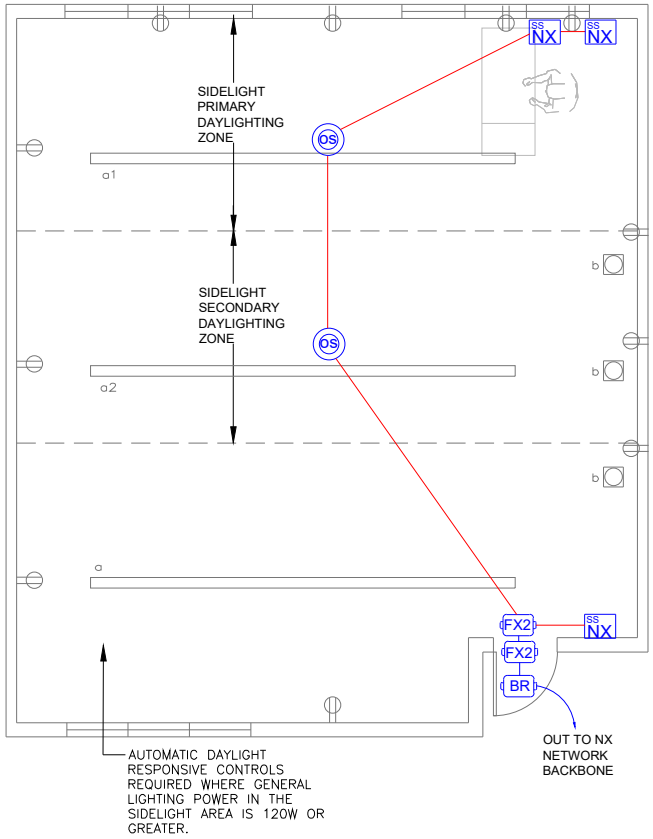
1. General lighting (a, a1, a2) Partial On to 50% when occupancy detected.
2. Manual On/Off/Dim general lighting (a, a1, a2) and down lighting (b) with scene switches.
3. Scene settings

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)



LIGHTING SYSTEMS
www.ltgsys.com
(510) 982-3900
2322 6th Street
Berkeley, CA 94710

TYP CLASSROOM - TITLE 24 2022

MANUFACTURER: NX BY CURRENT

APPLICATION

DATE: 07/26/23

1.6.0