

Breakroom / Kitchen

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 for lighting
NXRCFX2-2RD-UNV - NX Room Controller 2 relay with 0-10 volt dimming
NXSW2-ORLO-WH - NX Digital Switch Station, On/Raise/Lower/Off, White
NXSMDT-OMNI - NX Occupancy Daylight Sensor, 24V, Ceiling Mount, PIR and Ultrasonic, 360°, 2,000 Sq. Ft.

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 (a) auto On to 50% and controlled receptacles auto On when occupancy detected.
2. Manual On/Off/Dim general lighting (a) with dimmer switch.
3. Manual On/Off /Dim control under cabinet lighting (b) with dimmer switch.
4. Auto off all lighting and controlled receptacles within 20 minutes of occupants leaving except for refrigerators and water dispensers, **Exception 1 (a)**

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 use NX Area Controller (NXAC)

QTY	SYMBOL LIST
1	(BR) NETWORK BRIDGE
1	(FX1) ROOM CONTROLLER 1 RELAY
1	(FX2) ROOM CONTROLLER 2 RELAYS
1	(OS) OCCUPANCY/DAYLIGHT SENSOR
2	(ORLO NX) SWITCH-ON/OFF/RAISE/LOWER

