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 Daylihjt Sensor, 24V, Ceiling Mount, PIR and Ultrasonic, 360º, 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

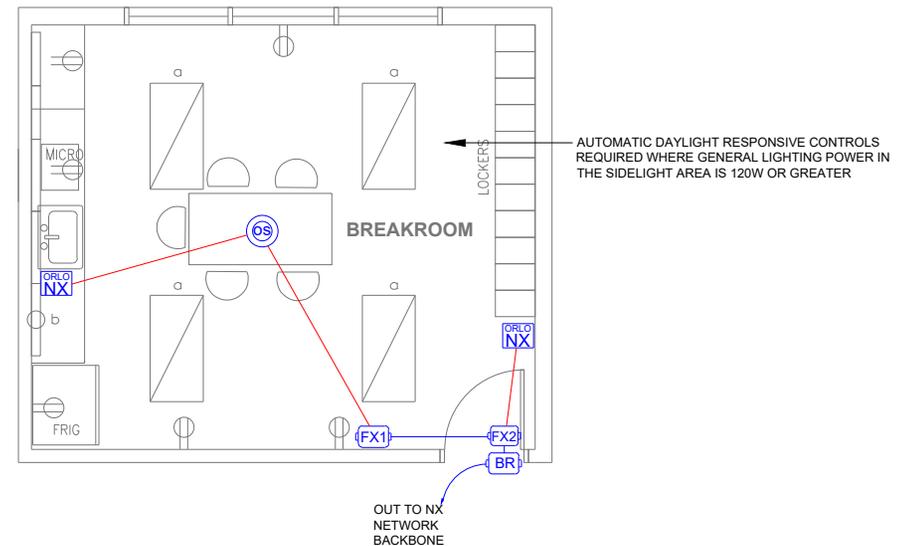130.1(f): Control Interactions

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

BREAKROOM

MICRO

LOCKERS

FRIG

AUTOMATIC DAYLIGHT RESPONSIVE CONTROLS REQUIRED WHERE GENERAL LIGHTING POWER IN THE SIDELIGHT AREA IS 120W OR GREATER

OUT TO NX NETWORK BACKBONE

REV:	QUOTE ID:	DATE:	BY:	Project Name:

TITLE 24 PART 6 2022 Breakroom

Current