LIGHTING CONTROLS LEGEND AND DESCRIPTIONS

PASSIVE DUAL TECHNOLOGY (PDT)

CONTROL, CHASE NIPPLE MOUNTING

PCD - nSP5 PCD (2W, 3W, MLV, ELV 120)

PIR/MICROPHONICS/BOTH

OS - nCM PDT 10 RJB

DS - nCM ADCX RJB

DP - nPP16 D EFP

NIPPLE MOUNTING

1-ZONE = S1 - nPODM DX

2-ZONE = S2 - nPODM 2P DX

4-ZONE = S4 - nPODM 4P DX

SUBSCRIPT REFERENCES ZONE OF CONTROL

2-SCENE = SS2 - nPODM 4S DX

4-SCENE = SS4 - nPODM 4S DX

GFXX - nPOD GFX

WS - nWSX PDT LV DX

SB-327 SPECIFICATION REQUIREMENTS:

CALIFORNIA CIVIL CODE 1.81.26.

TO THE DEVICE FOR THE FIRST TIME.

INFORMATION SYSTEM.

(FIPS) 140-2, LEVEL 1 COMPLIANT.

SB-327 AUTHENTICATION PROCESS:

2. REQUIRES 2 DATES FOR SCHEDULING.

BUILDING CONTROLLER (B-BC).

3. ENHANCED SECURITY PROVIDED BY BOTH:

4. CONTACT SDLA FOR INTEGRATION WITH BMS,

CONTROLS@SDLTG.COM - PHONE # 858-505-1055.

SPECIFICATIONS:

3.1. HTTPS SERVER

4. CONTACT SDLA FOR AUTHENTICATION SETUP,

CONTROLS@SDLTG.COM - PHONE # 858-505-1055.

BUILDING MANAGEMENT SYSTEMS INTEGRATION

1. BACnet TESTING LABORATORIES (BTL) LISTED AS A BACnet

2. OPTIONAL AUTOMATIC DEMAND RESPONSE CLIENT OPTION

LEVELS THROUGH AN OpenADR 2.0a VIRTUAL END NODE.

REQUIRES OUTBOUND IP CONNECTION TO UTILITY DRAS.

3.2. U.S. GOVERNMENT SECURITY STANDARD OF FEDERAL

INFORMATION PROCESSING STANDARD (FIPS) PUBLICATION

140-2, LEVEL 1, INSIDE (VALIDATION CERTIFICATE PENDING).

ALLOWS ACTIVATION OF CONFIGURABLE LOAD SHED DIMMING

PL - nPP20 PL

EXTENDED RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE,

DETECTION TECHNOLOGY SHALL BE SELECTABLE AS FOLLOWS:

AUTOMATIC DIMMING CONTROL PHOTOCELL- CEILING MOUNT,

16 AMP (120/227V) POWER/RELAY PACK WITH 0-10V DIMMING

20 AMP (120V) RELAY PACK FOR PLUG LOAD CONTROL, CHASE

5 AMP (120/227V) POWER/RELAY PACK PHASE DIMMING CONTROL.

LOW VOLTAGE GRAPHIC TOUCHSCREEN CONTROLLER, INCLUDES

LOW VOLTAGE WALL SWITCH OCCUPANCY SENSOR WITH

ON/OFF/RAISE/LOWER, PASSIVE DUAL TECHNOLOGY (PDT)

CHASE NIPPLE MOUNTING (277V NOT AVAILABLE WITH ELV)

SUBSCRIPT REFERENCES CIRCUIT/ZONE OF CONTROL

SUBSCRIPT REFERENCES CIRCUIT/ZONE OF CONTROL

SUBSCRIPT REFERENCES CIRCUIT/ZONE OF CONTROL

LOW VOLTAGE ON/OFF TOGGLE SWITCH WITH DIMMING

LOW VOLTAGE SCENE SELECTOR WITH DIMMING

SUBSCRIPT REFERENCES ZONE OF CONTROL

SUBSCRIPT REFERENCES ZONE OF CONTROL

SUBSCRIPT REFERENCES ZONE OF CONTROL

1. **SENATE BILL No. 327** - LIHGTING CONTROLS MUST COMPLY WITH

2. GENERATION OF AUTHENTICAION - THE DEVICE MUST CONTAIN

3. AUTHENTICATION - METHOD OF VERIFYING OF A USER.

PROCESS, OR DEVICE TO ACCESS RESOURCES IN A

4. SECURITY FEATURE - A FEATURE OF A DEVICE DESIGNED TO PROVIDE SECURITY FOR THAT DEVICE. U.S. GOVERNMENT

1. REQUIRES 3 POINTS OF CONTACT - FACILITIES DEPARTMENT, OWNER'S REP, AND IT DEPARTMENT (EMAIL AND CONTACT

3. INTEGRATION REQUIREMENTS (IP ADDRESS, SUBNET MASK, AND

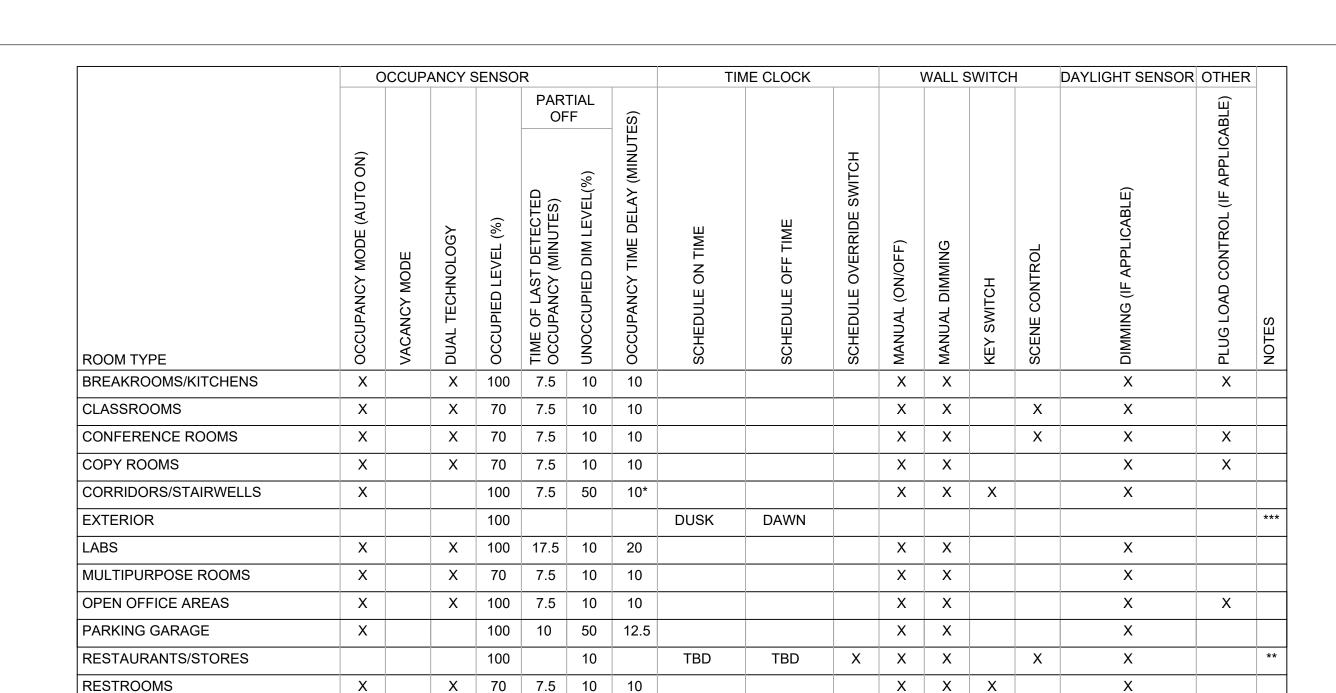
A SECURITY FEATURE THAT REQUIRES A USER TO GENERATE A NEW MEANS OF AUTHENTICATION BEFORE ACCESS IS GRANTED

STANDARD OF FEDERAL INFORMATION PROCESSING STANDARD

16-ZONES AND 16-SCENES WITH DIMMING

XX/XX/2015 Scale: NOT TO SCALE Drawn By: Quote #:

CORRIDOR/STAIRWELL DETAIL



SMALL OFFICES < 250 SQ FT

WAREHOUSES

STORAGE ROOMS > 100 SQ FT

* DURING OPERATIONAL HOURS THE LIGHTING DIM LEVEL WILL GO TO 50% AFTER 7.5 MINUTES OF NO OCCUPANCY. OUTSIDE OF OPERATIONAL HOURS THE DIM LEVEL WILL GO TO 50% AFTER 7.5 MINUTES OF NO OCCUPANCY, AND THEN AFTER A TOTAL OF 10 MINUTES OF NO OCCUPANCY THE LIGHTS WILL TURN OFF. OWNER TO VERIFY TIME SCHEDULES.

100 | 10 | 50 | 12.5 | TBD | TBD

** 5 MINUTES BEFORE THE LIGHTING IS SCHEDULED TO TURN OFF, THE LIGHTS WILL TURN OFF FOR 1 SECOND AND THEN GO BACK TO IT'S PREVIOUS DIMMING LEVEL. THIS BLINK WARNING PREVENTS FALSE OFFS AND GIVES AUTHORIZED PERSONNEL A WARNING TO PRESS

| X | X

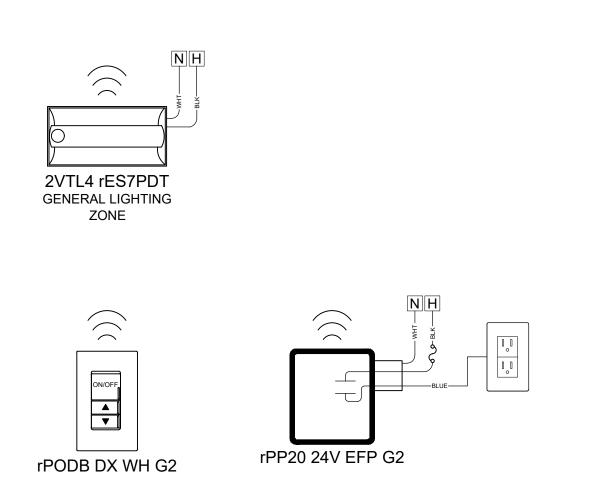
XX

| X | X

WALL SWITCH TO ACTIVATE A 2-HOUR OVERRIDE. OWNER TO VERIFY TIME SCHEDULES. *** AUTOMATIC SCHEDULING CONTROLS SHALL BE CAPABLE OF REDUCING THE LIGHTING BETWEEN 50% AND 90% AND HAVE A MINIMUM OF TWO NIGHTTIME PERIODS. DIMMING CONTROLLED AT FIXTURE LEVEL, USING NLIGHT AIR WIRELESS LIGHTING COTNROLS WILL NOT REQUIRE 0-10V DIMMING WIRES TO BE PULLED THROUGH THE LCP, PER SECTION 130.2(c)2(A).

X 70 7.5 10 10

100 | 7.5 | 10 | 10



nECYD NLTAIR G2

nECY MVOLT ENC GFXK

nlight backbone network detail

CONNECTION TO LAN/WAN FOR

SENSORVIEW SOFTWARE, ADR (

ADDITIONAL nECY CONTROLLERS

AND/OR BAS INTEGRATION ackslash



ON DETAIL (1)

COMMUNICATION TO

NECYD ANTENNA SHOWN

NETWORK CONTROLLER INCLUDES THE FOLLOWING CAPABILITIES:

2. ASTRONOMICAL TIME CLOCK VIA SENSORVIEW SOFTWARE.

ACTIVATION OF CONFIGURABLE LOAD SHED DIMMING LEVELS

API SYSTEMS. BACnet TESTING LABORATORIES LISTED B-BC.

6. SECURITY FIPS PUBLICATION 140-2, LEVEL 1 INSIDE

4. AUTOMATIC DEMAND RESPONSE (ADR) CLIENT THAT ALLOWS

5. SOFTWARE INTEGRATION FOR BACNET IP/MSTP BAS OR REST

(VALIDATION CERTIFICATE PENDING); COMPLIES WITH CALIFORNIA

CIVIL CODE TITLE 1.81.26, SECURITY OF CONNECTED DEVICES,

7. FOLLOW SB-327 END-USER AUTHENTICATION PROCESS TO

3. ETHERNET PORT TO CONNECT TO LAN/WAN NETWORK.

1. STANDALONE AND NETWORKED nLIGHT SYSTEM

THROUGH AN OpenADR 2.0a VIRTUAL END NODE.

APPROVED UNDER SENATE BILL NO. 327 (2018).

PROVIDE A COMPLIANT SB-327 SYSTEM.

8. DEMAND RESPONSE READY DEVICE.

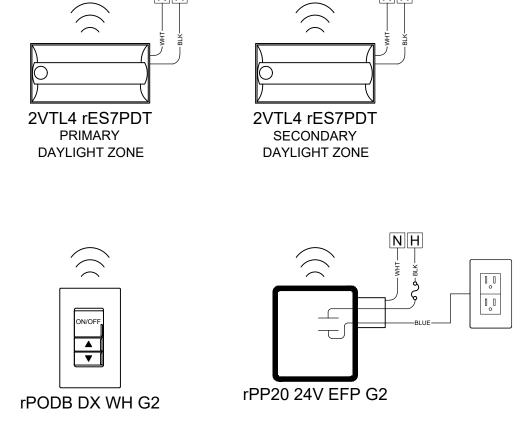
FUNCTIONALITY.

TO ADDITIONAL nLIGHT DEVICES

REQUIRED OR AS INDICATED ON

AND/OR ENABLED FIXTURES IF

FLOOR PLANS

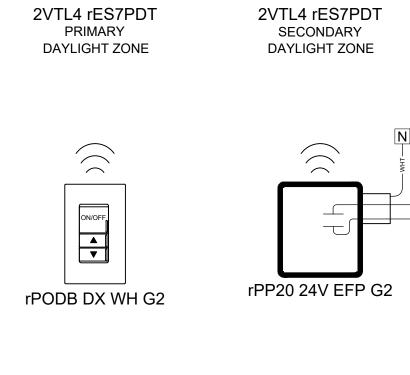


OPTION FOR NETWORKED SYSTEM. WIRELESS COMMUNICATION TO **NECYD ANTENNA SHOWN** ON DETAIL(1)

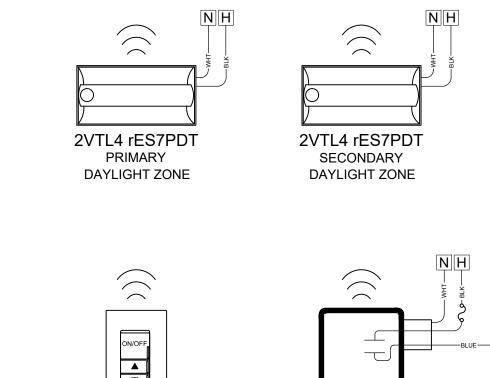
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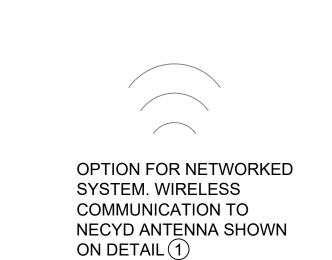


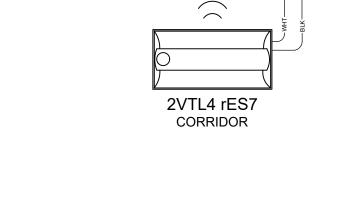
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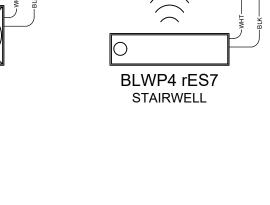


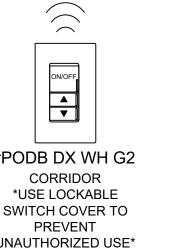
ON DETAIL 1















OPTION FOR NETWORKED SYSTEM. WIRELESS COMMUNICATION TO NECYD ANTENNA SHOWN ON DETAIL 1

GENERAL NOTES:

CONTROLS SYSTEM.

ALL DEVICES.

ROOM TYPE

3.4. DEVICE CUTSHEETS.

1. DETAILS AND DESIGN IS BASED ON AN nLIGHT LIGHTING

2. DETAILS ARE DIAGRAMMATIC AND FOR REFERENCE OF SYSTEM

AND DEVICES USED FOR EACH SPACE AND NETWORK.

3. LIGHTING CONTROL SUBMITTALS FOR NETWORKED SYSTEM

3.2. STANDALONE/NETWORK SINGLE LINE DIAGRAM.

FIELD INSTALLATION REQUIREMENTS.

ADJUSTMENTS TO PROGRAMMING.

TITLE 24 REQUIREMENTS.

BEST FIT LOCATIONS IN THE FIELD.

TITLE 24 COMPLIANCE:

POWERPACKS AND INSTALLED FIXTURES.

1. MANUAL AREA CONTROLS, SECTION 130.1(a).

3. SHUT-OFF CONTROLS, SECTION 130.1(c).

6. CONTROLS INTERACTIONS, SECTION 130.1(f).

2-HOUR ONSITE OR REMOTE TRAINING.

nLIGHT REST API SPECIFICATIONS:

THIRD PARTY SYSTEMS.

AVAILABLE THROUGH:

PHONE # 858-505-1055.

MULTIPLE POST COMMANDS.

BY THIRD PARTY SYSTEMS.

PHONE # 858-505-1055.

REQUIREMENTS

2. MULTI-LEVEL LIGHTING CONTROLS, SECTION 130.1(b).

4. AUTOMATIC DAYLIGHTING CONTROLS, **SECTION 130.1(d)**.

5. DEMAND RESPONSE CONTROLS, **SECTION 130.1(e)** AND **SECTION**

7. CIRCUIT CONTROLS FOR 120-VOLT CONTROLLED RECEPTACLES

BASIS OF DESIGN TO COMPLY WITH T24), SECTION 120.8(c).

SYSTEM OPERATIONS TRAINING OPTIONS, PER SECTION

2. 2-DAY IN PERSON OR REMOTE TRAINING @ SDLA, AT CUSTOMER

3. VIDEO TRAINING GIVEN TO EVERYONE WHO PARTICIPATES IN

4. CONTACT SDLA FOR TRAINING, CONTROLS@SDLTG.COM -

ACUITY BRANDS SYSTEM - nLIGHT CONTROLLER SHALL BE

COMPATIBLE WITH REST API OVER AN ENCRYPTED HTTPS

WITH A USERNAME/PASSWORD PAIR. PASSWORDS TO HAVE ADJUSTABLE COMPLEXITY TO COMPLY WITH CUSTOMER PASSWORD

CONTROLLER SHALL BE MADE AVAILABLE THROUGH:

1.1. WRITE ACCESS SHALL INCLUDE COMMAND OF

DEVICE-RELAY-STATE, DEVICE-DIM-LEVEL,

GROUP-RELAY-STATE, AND GROUP-DIM-LEVEL.

1.2. GROUPING OF DEVICES FOR GROUP-RELAY-STATE AND GROUP-DIM-LEVEL WRITE ACCESS SHALL BE AUTOMATICALLY GENERATED BY THE SYSTEM CONTROLLER AND SHALL NOT REQUIRE CREATION BY

1.3. GROUP-RELAY-STATE AND GROUP-DIM-LEVEL RESPONSE TO REST API SHALL BE AVAILABLE WITHOUT REQUIRING

2. READ ACCESS OF END DEVICES (EMBEDDED nLIGHT FIXTURES) CONNECTED TO THE SYSTEM CONTROLLER SHALL BE MADE

2.1. READ ACCESS SHALL INCLUDE DEVICE-ONLINE/OFFLINE

GROUP-RELAY-STATE, AND GROUP-DIM-LEVEL

2.2. GROUP OF DEVICES FOR GROUP-OCCUPANCY-STATE,

GROUP-OCCUPANCY-STATE, MEASURED-LIGHT-LEVEL,

GROUP-RELAY-STATE, AND GROUP-DIM-LEVEL READ

3. CONTACT SDLA FOR SETUP OF RESPI CONTROLS@SDLTG.COM -

ACCESS SHALL BE AUTOMATICALLY GENERATED BY THE SYSTEM CONTROLLER AND SHALL NOT REQUIRE CREATION

STATUS. DEVICE-OCCUPANCY-STATE.

DEVICE-RELAY-STATE, DEVICE-DIM-LEVEL,

1. WRITE ACCESS OF END DEVICES CONNECTED TO THE SYSTEM

CONNECTION. READ AND WRITE CONNECTION SHALL BE SECURABLE

LOCATION, OR VIDEOCONFERENCING SOFTWARE.

THE 2-DAY IN PERSON OR REMOTE TRAINING.

9. CONTACT SDLA FOR COMPLETE nLIGHT LIGHTING CONTROLS BOM, CONTROLS@SDLG.COM - PHONE # 858-505-1055.

8. INDOOR LIGHTING CONTROLS BASIS OF DESIGN (SEE SDLA

AND ROOM TYPE REQUIREMENTS TO MEET BASIS OF DESIGN.

SHALL INCLUDE THE FOLLOWING DOCUMENTS (NOT LIMITED TO

3.1. SHOP DRAWINGS SHOWING QUANTITY AND LOCATION OF

3.3. BASIS OF DESIGN PROGRAMMING OPERATION FOR EACH

4. MANUFACTURER OR FACTORY REPRESENATIVE TO INCLUDE

STARTUP AND COMMISSIONING OF THE LIGHTING CONTROL

SYSTEM. MUST INCLUDE A SITE VISIT FOR THE FOLLOWING:

4.2. PROGRAMMING AND COMMISSIONING OF THE LIGHTING

5. CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING

MANUFACTURER'S RECOMMENDATION TO PROVIDE A

6. ALL DEVICES SHALL BE MOUNTED AND INSTALLED IN

COMPLETE AND FULLY FUNCTIONAL COMPLIANT TITLE 24

7. CONTRACTOR TO VERIFY COMPATIBILITY BETWEEN DIMMING

8. CONTACT SDLA FOR COMPLETE nLIGHT LIGHTING CONTROLS

BOM, CONTROLS@SDLG.COM - PHONE # 858-505-1055.

4.1. A PRE-CONSTRUCTION MEETING TO CONFIRM DESIGN AND

CONTROL SYSTEM TO MEET THE BASIS OF DESIGN AND

4.3. MAINTENANCE / OWNER WALK THROUGH FOR MAKING FINAL

CONTROL DEVICES, CABLES, ACCESSORIES AS REQUIRED BY

ACCESSIBLE CEILING LOCATIONS. CONTRACTOR WILL VERIFY

REFER TO MANUFACTURERS SHOP DRAWINGS FOR QUANTITIES

REV DATE

DWG Ref:

OPEN OFFICE DETAIL

3 SMALL OFFICE DETAIL
N.T.S.

2VTL4 rES7PDT

PRIMARY

DAYLIGHT ZONE

2VTL4 rES7PDT

SECONDARY

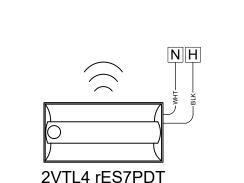
DAYLIGHT ZONE

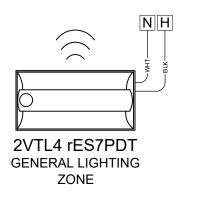
rPP20 24V EFP G2

2VTL4 rES7PDT

GENERAL LIGHTING

ZONE











rPODB DX WH G2 SWITCH COVER TO UNAUTHORIZED USE*

