



NOTES

- 5 MINUTES BEFORE THE LIGHTING IS SCHEDULED TO TURN OFF, THE LIGHTS WILL TURN OFF FOR 1 SECOND AND THEN GO BACK TO ITS PREVIOUS DIMMING LEVEL. THIS BLINK WARNING PREVENTS FALSE OFFS AND GIVES AUTHORIZED PERSONNEL A WARNING TO PRESS WALL SWITCH TO ACTIVATE A 2-HOUR OVERRIDE. OWNER TO VERIFY TIME SCHEDULES.
- ** AUTOMATIC SCHEDULING CONTROLS SHALL BE CAPABLE OF LIGHTING SETBACK CONTROL IN ACCORDANCE TO **C405.2.6.2** FOR DECORATIVE FIXTURES AND **C405.6.2.3** FOR NON-DECORATIVE FIXTURES.
- *** LIGHTS IN OCCUPIED CONTROL ZONES SHALL BE CONTROLLED SEPARATELY IN CONTROL ZONES NOT GREATER THAN 600 SQUARE FEET. IF LIGHTING SHALL BE ON AT 100% FULL BRIGHT AND THE FIXTURES IN THE UNOCCUPIED (AFTER 7.5 MINUTES OF NO DETECTED MOVEMENT) CONTROL ZONES WILL BE AT 20% FULL BRIGHT. IF ALL AREAS ARE UNOCCUPIED (AFTER 10 MINUTES OF NO DETECTED MOVEMENT IN ALL CONTROL ZONES) THEN THE LIGHTS WILL TURN OFF.



1. OCCUPANT SENSOR CONTROLS. [SECTION C405.2.1](#)
2. TIME-SWITCH CONTROLS. [SECTION C405.2.2](#)
3. DAYLIGHT-RESPONSIVE CONTROLS. [SECTION C405.2.3](#)
4. SPECIFIC APPLICATION CONTROLS. [SECTION C405.2.4](#)
5. MANUAL CONTROLS. [SECTION C405.2.5](#)
6. EXTERIOR LIGHTING CONTROLS. [SECTION C405.2.6](#)
7. ENHANCED DIGITAL LIGHTING CONTROLS. [SECTION C406.4](#)
8. FUNCTIONAL TESTING OF LIGHTING CONTROLS. [SECTION C406.3](#)
9. CONTACT HILA FOR COMPLETE ILLUMINATING CONTROLS
BOM, CONTROLS@HIL-LTG.COM • PHONE # 808-683-9344.

OS EXTENDED RANGE 360° SENSOR-CEILING MOUNT, LOW VOLTAGE
PASSIVE DUAL TECHNOLOGY (PDT)
DETECTION TECHNOLOGY SHALL BE SELECTABLE AS FOLLOWS:
PIR/MICROPHONICS/BOTH
OS - nCM PDT 10 RJ/B

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| PS | AUTOMATIC DIMMING CONTROL, PHOTOCELL, CEILING MOUNT, LOW VOLTAGE, 0-10VDC DS - 40MA DCXJ RB |
| DP | 16 AMP (120/277V) POWERVLEY PLUG WITH 0-10V DIMMING CONTROL, CHASE NIPPLE MOUNTING DP - 4PPB 18 EPP SUBST REFERENCE CIRCUITRYZON OF CONTROL |
| PL | 20 AMP (120/277V) POWERVLEY PLUG FOR PLUS LOAD CONTROL, CHASE NIPPLE MOUNTING SUBST REFERENCE CIRCUITRYZON OF CONTROL |
| PCD | 16 AMP (120/277V) POWERVLEY PLUG PHASE DIMMING CONTROL, CHASE NIPPLE MOUNTING PCD - 4PPC PCD EPP SUBST REFERENCE CIRCUITRYZON OF CONTROL |
| S1a S1b S1c S1d | LOW VOLTAGE ON/OFF TOGGLE SWITCH WITH DIMMING 1-ZONE - S1 - 4POMAX 4D XX 2-ZONE - S2 - 4POMAX 4D 2X 4-ZONE - S4 - 4POMAX 4D 4X 8-ZONE - S8 - 4POMAX 4D 8X SUBST REFERENCE CIRCUITRYZON OF CONTROL |
| SS2 SS4 | LOW VOLTAGE CHANGE SELECTOR WITH DIMMING 2-SCENES - SS2 - 4POMAX 4S 2X 4-SCENES - SS4 - 4POMAX 4S 4X SUBST REFERENCE CIRCUITRYZON OF CONTROL |
| CFX | LOW VOLTAGE GRAPHIC TOUCHSCREEN CONTROLLER, INCLUDE 16-ZONES AND 18-SCENES WITH DIMMING 0-10VDC, 0-10VDC X SUBST REFERENCE CIRCUITRYZON OF CONTROL |
| WS | LOW VOLTAGE WALL SWITCH OCCUPANCY SENSOR WITH ON/OFF/KNAGEL/LOW PASS/NO PASS/NO PASS/NO PASS/NO PASS WS - WMSKA PPT LV XX SUBST REFERENCE CIRCUITRYZON OF SENSOR |

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

1. BACNET TESTING LABORATORIES (BTL) INSTALLED AS A BACNET BUILDING CONTROLLER (B-BCC).
2. OPTIONAL ANTI-DEMAND RESPONSE RESONANT OPTION REQUIRED TO BE PROVIDED BY THE CONTRACTOR TO MAINTAIN DRIVING LEVELS THROUGH AN OPERA2R D2O VIRTUAL END NODE. REQUIRES OUTBOUND P CONNECTION TO UTILITY DATA.
3. ENHANCED SECURITY PROVIDED BY BOTH:
 - A. HTTPS
 - B. U.S. GOVERNMENT SECURITY STANDARD OF FEDERAL INFORMATION PROCESSING STANDARDS (FIPS) PUBLICATION 140-2, LEVEL 1, INSIDE (VALIDATION CERTIFICATE PENNED)
4. THE INSTALLING CONTRACTOR WILL BE RESPONSIBLE FOR THE FOLLOWING WHEN INTEGRATING LIGHTING CONTROL SYSTEM WITH THE BACNET SYSTEM:
 - A. PROVIDING A PHYSICAL CONNECTION FROM LIGHTING CONTROL SYSTEM TO BTL VIA BACNET IP.
 - B. PROVIDING A WIRING CONNECTION FROM SPECIAL LABELING CONFIGURATIONS THAT THE LIGHTING CONTROL PROGRAMMER & BMS CONTROL PROGRAMMER FOR SEAMLESS INTEGRATION OF THE TWO SYSTEMS.
 - C. PROVIDING THE CASTLE AND MOUNTAIN LIGHTING CONTROLS PROGRAMMER & BMS CONTROLS PROGRAMMER TO INSTALL FOR INTEGRATION WITH BMS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR INTEGRATION WITH BMS.

1. 2-HOUR ONSITE OR REMOTE TRAINING.
2. 2-DAY IN PERSON OR REMOTE TRAINING @ HILA, AT CUSTOMER LOCATION, OR VIDEOCONFERENCING SOFTWARE.
3. VIDEO TRAINING GIVEN TO EVERYONE WHO PARTICIPATES IN THE 2-DAY IN PERSON OR REMOTE TRAINING.
4. CONTACT HILA FOR TRAINING, CONTROLS@HILA.LTG.COM - PHONE # 808-683-9344.



