

Zone5™ LIGHTING CONTROL SWITCHES

Installation Instructions

Hubbell Building Automation

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DESCRIPTION

The HBA Zone5™ Lighting Control switches are designed to provide a user interface and control of systems operating on Class 2, low voltage circuitry.

SPECIFICATIONS

- Electrical Ratings: Each switch: 100mA @ 30VDC Max
- Accepts standard decorator style wall plate, switch plates available separately.
- UL and cUL listed
- 5-year warranty

PRECAUTIONS

- **CAUTION: FOR USE WITH CLASS 2, LOW VOLTAGE SYSTEMS ONLY. DO NOT USE IN HIGH VOLTAGE APPLICATIONS.**
- Read and understand all instructions before beginning installation.
- NOTICE: For installation by a licensed electrician in accordance with National and/or local Electrical Codes.
- NOTICE: For indoor use only.
- **CAUTION: USE COPPER CONDUCTOR ONLY.**
- Confirm device ratings are suitable for application prior to installation. Use of device in applications beyond its specified ratings or in applications other than its intended use may cause an unsafe condition and will void manufacturer's warranty.
- NOTICE: Do not install if any damage to product is noticed.
- ALL EXCESS CAT5 CABLE MUST BE REMOVED FROM WALL BOX PRIOR TO INSTALLATION. Connection between CAT5 cable and switch connection port must remain straight and true without interference or pressure from excess or misaligned cable.

LIGHTING CONTROL SWITCH OPTIONS

- **GEN / A/V.** Two buttons (GEN and A/V) switch between General Lighting and Audio Visual Lighting.
- **Study Time with LED indicator.** Occupancy Sensor override switch (set standard for 60 minute override)
- **GEN / A/V Dimming (Chevron Up/Chevron Down).** Pressing Chevron Down will manually lower light level in increments. Pressing Chevron Up will manually raise light level in increments. Requires 0-10V ballasts in the primary lighting fixtures in the room in order to operate properly. To test, press A/V switch, ensure A/V mode is engaged, then press Chevron Down to lower light level and Chevron Up to raise light level. Not applicable on whiteboard lighting fixtures if whiteboard fixtures are used in the room.



Z5-SW-GAV



Z5-SW-AVD



Z5-SW-ST



Z5-SW-WB

LIGHTING CONTROL SWITCH OPTIONS *(continued)*

- **Whiteboard on/off.** If dedicated whiteboard lighting has been installed, the switch will turn the whiteboard lighting on and off. For rooms with multiple whiteboards and multiple dedicated whiteboard lighting, consult wiring diagram.

LIGHTING CONTROL SWITCH IDENTIFICATION

| Part No. | Back Label | No. of Buttons | Switch Button(s) | Function |
|-----------|------------|----------------|------------------|---|
| Z5-SW-GAV | GAV | 2 | GEN A/V | GEN: Switches General Lighting mode on, switches A/V Lighting mode off A/V: Switches A/V Lighting mode on, switches General Lighting mode off. |
| Z5-SW-ST | ST | 1 | STUDY TIME | Overrides occupancy sensor for 60 minutes standard (time may be adjusted in ZCM programming menu). When LED is lit, STUDY TIME is engaged. When LED blinks, 2 minutes of STUDY TIME remain. When LED light goes off, lighting defaults to Occupancy Sensor control and will turn off if the room is unoccupied. Press and hold for 3 seconds to cancel STUDY TIME mode. |
| Z5-SW-AVD | AVD | 2 | ▲ ▼ | Raises or lowers light level. Requires 0-10V dimming ballast in lighting fixture. Does not operate whiteboard lighting. |
| Z5-SW-WB | WB | 1 | WHITE- BOARD | Provides on/off control for dedicated whiteboard lighting with switch. |

INSTALLATION INSTRUCTIONS

1. Prepare the installation site, as necessary, to install the switch.
2. Plug the Blue CAT5 cable, available separately, into the Lighting Control Station connector on the Zone5 Control Module *(See Figure 1)*. Each CAT5 connection will operate properly from any of the three available blue Lighting Control Station ports. Multiple connections are required under the following circumstances.
 - a. When multiple Lighting Control switches are used and each has a home run back to the ZCM.
 - b. When one group of Lighting Control switches is used in conjunction with a one or more separate whiteboard switches and each has a home run back to the ZCM.
 - c. When two groups of Lighting Control switches are used with one whiteboard switch and each has a home run back to the ZCM.
4. Route the Blue cable from the Zone5 Control Module (ZCM) to the Lighting Control switch(es) and/or separate Whiteboard switch(es). If routing multiple switch stations and/or multiple individual whiteboard controls, up to three connections may be made as home run connections.

Note: Low voltage wiring must be isolated from line voltage wiring. Consult National and Local Electrical Codes for conduit requirements.

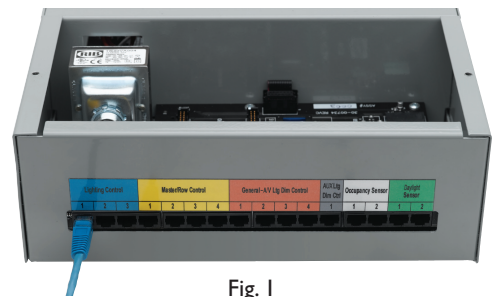


Fig. 1

5. Plug the Blue cable into any CAT5 connection port on the back of any Lighting Control switch (See Figure 2). Verify solid snap-in connection.
6. Multiple Lighting Control switches can be ganged together. Make connections between switches; daisy-chain them together using the 3" Blue jumper cable, available separately (See Figure 3). Verify solid snap-in connections.
7. Remove excess CAT5 cable from wall box prior to insertion of switch(es). CAT5 connection to switch must remain straight, true, and free of pressure or interference from excess in box. Test functionality of switch prior to installing the switches into the electrical box. (See Figure 4)
8. Perform system setup and/or programming activities as applicable in accordance with the instructions of the Zone5 Control Module.
9. Verify switch functionality by pressing the switch button(s) and confirm proper system response.

NOTE: EasyConnect cord upgrade may be provided. EasyConnect can be identified in Figure 5 below.

TROUBLESHOOTING TIPS

1. Check for solid connections between all components.
2. Ensure power to ZCM is engaged.
3. Ensure wall box does not include excess cable; CAT5 connections must be straight and true without interference. See step 6 above.
4. For optional Dimming, if applicable, verify lighting fixtures have 0-10V dimming ballasts installed.
5. Consult ZCM programming manual for additional assistance.



Fig. 2

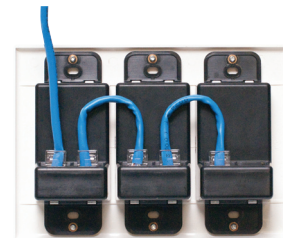


Fig. 3

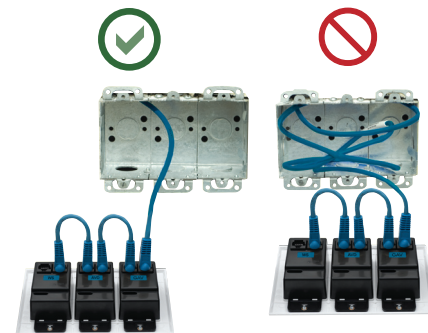
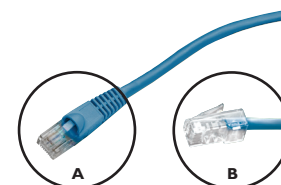


Fig. 4



(Cat cable end may look like A or B)

Fig. 5



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