MANUAL

clare™

CVL-IWD-10

ClareVue
In-wall Dimmer

66203
47192
47193
47194
47337
47338
ZW3010

Smart control   Add-On switches

Multiple paddle colors available

In-Wall Smart Dimmers | Plug-in Smart Dimmers | In-Wall Add-on Switches

In-Wall Motion Switch or Dimmer | Plug-in Smart Switches | In-Wall Smart Switches

Enbrighten Smart LED Bulb | In-Wall Smart Fan Control | Hinge Pin Smart Door Sensor

Direct Wire, 40A Outdoor Smart Switch | Portable Smart Multi Sensor | In-Wall Tamper-Resistant Smart Outlet | Plug-in Outdoor Smart Switch

WARNING

RISK OF FIRE
RISK OF ELECTRICAL SHOCK
RISK OF BURNS

CONTROLLING APPLIANCES
CAUTION: TO REDUCE THE RISK OF OVERHEATING AND POSSIBLE DAMAGE TO OTHER EQUIPMENT, DO NOT INSTALL TO CONTROL A RECEPTACLE, A MOTOR-OPERATED APPLIANCE, A FLUORESCENT LIGHTING FIXTURE OR A TRANSFORMER-SUPPLIED APPLIANCE.
• ONLY USE TO CONTROL INCANDESCENT OR DIMMABLE CFL/LED BULBS
• DO NOT EXCEED RATINGS
• DO NOT USE TO CONTROL ANY DEVICE WHERE UNINTENDED OPERATION COULD CAUSE UNSAFE CONDITIONS (HEAT LAMP, SUN LAMP, ETC.)
• FOR INDOOR USE ONLY

NOT FOR USE WITH MEDICAL OR LIFE-SUPPORT EQUIPMENT
Z-WAVE ENABLED DEVICES SHOULD NEVER BE USED TO SUPPLY POWER TO OR CONTROL THE ON/OFF STATUS OF MEDICAL OR LIFE-SUPPORT EQUIPMENT.

SPECIFICATIONS
ZW3010
Power: 120VAC, 60Hz
Signal frequency: 908.4/916MHz
Maximum loads: 600W, Z-gang 500W or 3-gang 400W incandescent, 300W dimmable CFL/LED
Range: Up to 150ft. line of sight between the wireless controller and the closest Z-Wave receiver module
Operating temperature range: 32-104° F (0-40° C)
Type 1 enclosure, independently mounted (vertical position only), operating control: type 1.c action, pollution degree (2), impulse voltage (2500V), software class A
For indoor use only
Specifications subject to change without notice due to continuing product improvement

1.

Tools you will need

IMPORTANT!
The fixture controlled by the Z-Wave In-Wall Smart Dimmer must not exceed 600W incandescent; 300W dimmable CFL/LED. The dimmer is designed only for use with permanently installed fixtures.
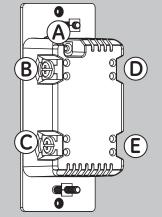
Getting to know your new Z-Wave device
• Turn ON/OFF and adjust dim levels manually or remotely via the Z-Wave controller
• Can be added in multiple groups and scenes
• May be used in single-pole installation or with up to five Clare-Branded Add-on Switches in 3-way or 4-way wiring configurations
• Compatible with all incandescent and most dimmable CFL/LED bulbs
• Auto line/load detection
• Interchangeable paddle switch — white & light almond paddle in package
• Uses a standard, decorative-style wallplate for single-gang installations (wallplate not included)
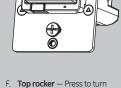• Blue LED indicates switch location in a dark room
• Z-Wave certified for simple pairing and integrated home automation
• Screw terminal installation — requires wiring connections for line (hot), load, neutral and ground. Traveler wire required for 3-way or 4-way installation
• This Z-Wave device has advanced features that allow you to customize your experience. These features can only be adjusted by a Z-Wave enabled controller that supports the Z-Wave configuration command class.

2.

A. **Ground** (Green/Bare)
B. **Line or Load** (Black)
C. **Line or Load** (Black)
D. **Traveler** (Red/Other)
E. **Neutral** (White)
F. **Top rocker** — Press to turn dimmer ON, press & hold increases brightness.
G. **Bottom rocker** — Press to turn dimmer OFF, press & hold to dim

3.

OR

Insert wires into holes, do not wrap wires around screws.
Do not remove screws.

Out to Light (Load)

From Breaker Box

WARNING — SHOCK HAZARD
Turn OFF the power to the branch circuit for the switch and lighting fixture at the service panel. All wiring connections must be made with the POWER OFF to avoid personal injury and/or damage to the switch. This device is intended for installation in accordance with the National Electric Code and local regulations in the United States or the Canadian Electrical Code and local regulations in Canada. If you are unsure or uncomfortable about performing this installation consult a qualified electrician.

Multi-switch wiring
For 3-way installations, please refer to Clare-branded Add-on Switch manual

Single-switch wiring
Before installation, you may wish to change the paddle color to match your wallplate or décor. Please proceed to section 5.
1. Shut off power to the circuit at circuit breaker or fuse box.
IMPORTANT! Verify power is OFF to switch box before continuing.
2. Remove wallplate.
3. Remove the switch mounting screws.
4. Carefully remove the switch from the switch box. DO NOT disconnect the wires.
There are up to five screw terminals on the switch; these are marked:
A. GROUND — Green/Bare
B. LINE OR LOAD — Black (connected to power or lighting)
C. LINE OR LOAD — Black (connected to power or lighting)
D. TRAVELER — Red/Other (only in 3-way installations)
E. NEUTRAL — White
Match these screw terminals to the wires connected to the existing switch.
5. Disconnect the wires from the existing switch. Label wires according to the previous terminal connection.

Observe important wiring information
IMPORTANT! This switch is rated for and intended to only be used with copper wire.

Wire gauge requirements
Use 14AWG or larger wires suitable for at least 80° C for supplying line (hot), load, neutral and traveler connections.

Wire strip length
For attachment using the enclosure's holes, strip insulation 5/8in. (16mm).
UL specifies the tightening torque for the screws is 14Kgf-cm (12lbf-in)
1. Connect the green or bare copper ground wire to the GROUND terminal.
2. Connect the black wire from the light to either LINE/LOAD terminal.
3. Connect the black wire from the electrical service panel (hot) to either LINE/LOAD terminal.
4. Connect the white wire to the NEUTRAL terminal (use a jumper wire if needed).
Note: The traveler terminal is only used for 3-way or 4-way wiring and should remain insulated if the dimmer is being installed in a 2-way system (one switch & one load).
5. Insert dimmer into the switch box being careful not to pinch or crush wires.
6. Dimmer must be independently mounted (vertical position only).
7. Secure the dimmer to the box using the supplied screws.

8. Mount the wallplate.
9. Reapply power to the circuit at fuse box or circuit breaker and test the system.

Basic operation
The connected light can be turned ON/OFF and adjust dim levels in two ways:
1. Manually from the front panel of the dimmer.
2. Remotely with a Z-Wave controller.

Manual control
The front panel rocker dimmer allows the user to turn ON/OFF the connected fixture.
1. To turn the connected fixture ON, press the top of the rocker.
2. To turn the connected fixture OFF, press the bottom of the rocker.

Adjust dim levels
1. To increase brightness, press and hold the top of the rocker.
2. To decrease brightness, press and hold the bottom of the rocker.

Cycle LED light
The LED below the dimmer acts as a guide light or status indicator.
How to cycle through options: Press up three times and down once quickly.
1. LED is ON when the load is off (guide light in the dark) (default).
2. LED is ON when the load is ON (indicates the dimmer is ON).
3. LED is always OFF.
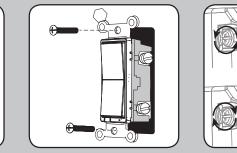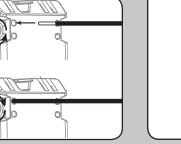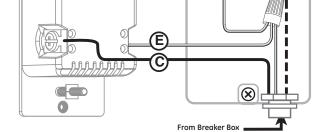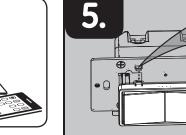4. LED is always ON (illuminates dimmer in the dark).

4.

Adding your device to a Z-Wave network
1. Follow the instructions for your Z-Wave certified controller to add a device to the Z-Wave network.
2. Once the controller is ready to add your device, press the top or bottom of the wireless smart dimmer (rocker).
Now you have complete control to turn your fixture ON/OFF according to groups, scenes, schedules and interactive automations programmed by your controller.
If your Z-Wave certified controller features remote access, you can control your fixture from your mobile devices.
If prompted by the controller to enter the S2 security code, refer to the QR code/security number on the side of the box or the QR code label on the product (see Figure 1). Enter the 5-digit code.

To remove and reset the device
1. Follow the instructions for your Z-Wave certified controller to remove a device from the Z-Wave network.
2. Once the controller is ready to remove your device, press the top or bottom of the wireless smart dimmer (rocker).

To return your switch to factory defaults
1. Quickly press ON (top) button three times, then immediately press the OFF (bottom) button three times. The LED will flash ON/OFF five times when completed successfully.
Note: This should only be used if your network's primary controller is missing or otherwise inoperable.

Figure 1:

5.

To change color of the paddle
This step is optional. Before installation, you may want to change the color of the paddle to match your wallplate or décor.
1. Lift the air gap tab at the base of the paddle.
2. Push side tabs in on one side and then the other to release paddle. Lift the cover up and off.
3. Simply put the new paddle onto the switch by inserting the air gap and side tabs and snapping securely into place.
Once this step has been completed, please return to section 3.

Z-WAVE INTEROPERABILITY
This product can be added and operated in any Z-Wave network with other Z-Wave certified devices from other manufacturers and/or other applications. All non-battery operated nodes within the network will act as repeaters regardless of vendor to increase reliability of the network.

The Clare-branded Add-on Switch is required for multi-switch 3-way or 4-way installations.
Connecting the traveler terminal of this switch to a standard, non-Clare-branded switch will cause damage or result in improper function. If this switch is a part of a 3-way or 4-way multi-switch installation, do not connect the traveler wire or apply power until Clare-branded Add-on Switches are correctly installed. For more information on 3-way or 4-way installations, view the manual or quick-start guide with the Clare-branded Add-on Switch.

This device supports association command class (3 Groups)
• Association Group 1 supports Lifeline, Multi-level Switch report
• Association Group 2 supports Basic Set and is controlled with the local load
• Association Group 3 supports Basic Set and is controlled by double pressing the ON or OFF button
• Each Association Group supports 5 total nodes

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NOTE: Actual performance of any CFL or LED will vary from bulb type to bulb type and among different manufacturers. It is important to note only bulbs designed as dimmable should be used on a dimmer. To find out if your bulb is dimmable, please check the package, the bulb itself or call the bulb manufacturer directly.