

## LTM-5

**Product**

3-Way Accessory Switch

**Description**

The Evolve 3-Way Wall Mounted Switch is a component of the Evolve lighting control system and is wired in place of a standard wall switch in any existing environment. Inclusion of this Switch on a Z-Wave network allows remote ON/OFF control and dimming of the loads connected, creating virtual 3-way switches. It's fully compatible with Z-Wave security systems and does not directly control a load - rather it communicates with other load controlling devices or plug-in modules.

This 3-Way Wall Mounted Switch is designed to work with other Evolve enabled devices. Evolve nodes of other types can be included in the network and will also act as repeaters to increase the range of the network. The Switch also has a replaceable trim ring available in assorted colors.

As part of a Z-Wave network, the LTM-5 will also act as a wireless repeater to ensure that commands intended for another device in the network are received. This is useful when the device would otherwise be out of the radio range of the wireless controller.

**Specifications**

- SKU: LTM-5
- Supported Networks:
  - Z-Wave – Signal (Frequency) 908.42 MHz
- Range: Up to 100 feet line of sight between the Wireless Controller and/or the closest Evolve Receiver Module
- Power: 120 VAC
- Dimensions: 4.5" H x 2.75" W x 1.75" D
- Weight: 0.31 lbs.

## Wiring

The LTM-5 does not control a circuit directly; rather it communicates wirelessly to another associated Evolve device, which in turn controls the required circuit. As there is no load control from the LTM-5, it only requires 120VAC power and neutral to operate:

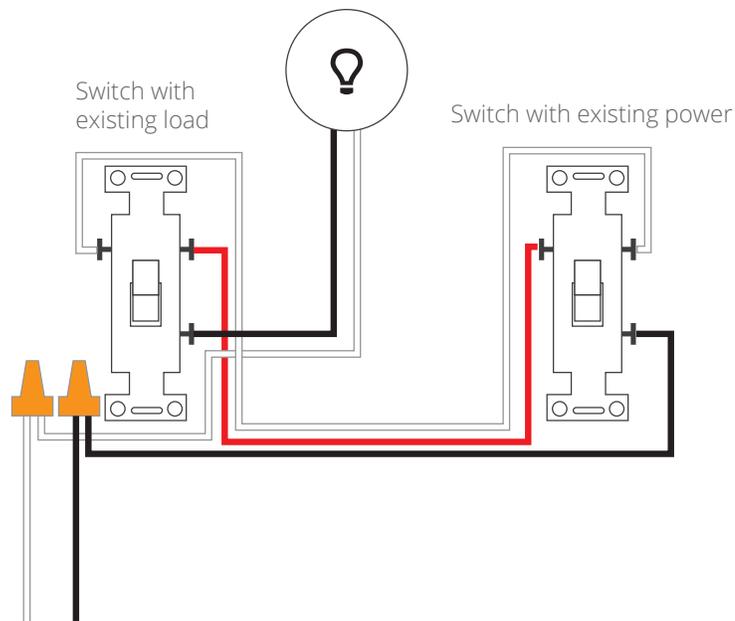
- Black – represents the line input, 120VAC
- White – represents the neutral

The switch also has a green wire which serves as the ground. While there is a yellow wire present, it is not needed and should be cut and capped with either electrical tape or a wire nut.

For operation after the LTM-5 has been successfully programmed:

- If configured to work in conjunction with an LSM-15: Tap top paddle for ON, tap bottom paddle for OFF.
- If configured to work in conjunction with an LRM-1000: Tap top paddle for ON, and the LRM-1000 returns to its last set brightness, which does not necessarily mean full brightness; tap bottom paddle for OFF (0% brightness), push and hold top/bottom to control dimming level.

This device is frequently used when creating virtual 3-way or 4-way circuits. Below is an example of proper wiring when converting an existing 3-way circuit, into an Evolve 3-way virtual circuit:



On an existing 3-way switch, one switch has an existing load control (on left) and one switch has existing line power (on right). There are two traveler wires between the switches.

In an Evolve circuit, only one device is required to control the load. The LTM-5 is then used to create a “virtual” 3-way circuit, where the LTM-5 communicates wirelessly to the load controlling switch to either turn on, turn off, or change the dim level of the circuit. In the pictured example above, the left hand side switch has a 120VAC, neutral, and load wire – everything required for either an LSM-15 or LRM-1000. The right hand side switch has 120VAC and 2 wires that travel to the left side switch. To add an LTM-5 to the right hand side the electrician would need to tie one of these 2 wires to neutral at the left side switch. If the application called for the load bearing switch (LSM-15 or LRM-1000) to be located on the right hand side, then both a neutral and load wire would be tied together at the left side switch.