



Connecting a Stopper Station lockdown button directly to your Integrator is a breeze as long as the button location is within 15 feet of the Integrator.

If you're planning on placing buttons in a more remote location or connecting multiple buttons in series, adding a higher-capacity electrical relay will be necessary to supply adequate power to communicate between the button and the Integrator.



Let's take a look at setting up a lockdown button system requiring a relay.

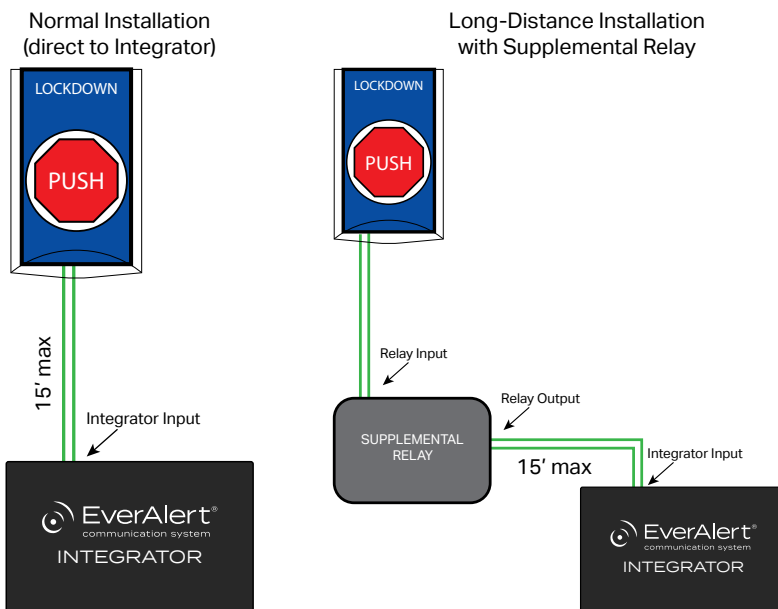
HOW IT WORKS

The Integrator supplies a low-current source from the input terminals to the connected device -- in this case, a lockdown button. When the button is pushed, the internal contact switch closes and the Integrator detects the change in the current to activate the alarm.

To ensure reliable operation, there is a 15-foot maximum distance allowed between the Integrator and a connected device. Adding a higher-voltage relay (such as the [Fire-Lite MR series](#)) between the lockdown button and the Integrator will isolate the wiring run which is triggering the Integrator and allow the button to reliably activate the relay at a greater distance.

SETUP

The setup of the Integrator will remain the same as if installing a lockdown button directly, but instead of connecting the wires from the button to the Integrator input, the wiring will run from the **output on the supplemental relay to the input on the Integrator**. The lockdown button wiring will be connected to the input on the supplemental relay. Note that the 15-foot distance requirement still applies, but to the location of the relay; the relay must be within 15 feet of the Integrator to ensure reliable operation.



If connecting multiple buttons is desired, the relay can be used in a similar way to accommodate the longer wiring runs that will be required.

For example, if buttons are being installed in individual classrooms, the buttons should be wired in series. The button nearest the Integrator should then be wired to the relay as shown.

This will allow any of the buttons to activate the lockdown across the entire system.

For additional information, contact American Time at 1-800-328-8996 or contact your sales representative.