

CONNECTING THE ZONE CONTROL UNIT

Step 1: Back Panel On the Zone Control Unit back panel connect the installed fiber cable with connectors for the zone. The connectors on the back panel need to match the connectors attached to the sensing fiber. Note the keyway before tightening the connectors. Always clean the connectors before installing.

Fig A:



Now connect the 9v power supply to a standard 110v AC outlet. If more than 1 Zone Control Unit is utilized, they may be installed in the Fiber Fence Rack. One power supply can be installed to power up to four Zone Control Units. A separate power supply with a 4 plug jack is available.

**NOTE: The Zone Control Unit contains a Class 1 laser.
Do not look directly into the adapters when the unit is on.**

A 3-pin terminal block on the back panel is provided for your use. It provides a normally open (NO) or normally closed (NC) contact to trigger an external alarm device, light or security system. This connection is a switch capable of carrying 3 amps (3A) of current. Use the terminal blocks as you on/off switch to operate your separately purchased alert system. See "Zone Mapping Software Operation" Part VI to interface with cell phones, etc.

Step 2: Operation of the Zone Control Unit front panel

Fig B:





Fiber Fence Installation Instructions



Steps for each Zone Control Unit:

1. Set the "Squelch" all the way to the left (counter clockwise) until it stops.
2. Set the Mute to Off (O), and the Latch to On (-)
3. Turn on the "Power" switch. None of the indicators will light yet.
4. Slowly turn the "Squelch" to the right (clockwise) until the green "Calibrated" and red "Alarm" lights start to come on and flash.
5. You may also hear the built-in audible alarm sounding when the "Alarm" flashes; and the relay in the terminal block will click. There is nothing wrong. The Control Unit is functioning correctly.
6. Continue to turn the "Squelch" until the "Alarm" light turns off. The green "Calibrated" light should stay on continuously. Turn it slightly further to the right.

NOTE: The "Squelch" takes up to 30 minutes to warm up. As it does it becomes more sensitive. You may hear static and a false alarm. Turn the dial a little further clockwise if needed until it stops.

7. Turn the Latch position to Off (O).
8. Turn the "Power" switch off then back on. After a few seconds you will see the "Calibrated" light flash and stay on.

The Control Unit is now tuned and calibrated to the conditions of the installation. Any additional attenuation applied to the fiber or sensors will cause the alarm to sound. High winds, extreme temperature change, ice, etc. may require the adjustment of the squelch control.

You can test the Control Unit by gently bending the fiber somewhere along the fence line; or by activating a mechanical sensor (Mouse Trip or Opti-Mag Sensor). The "Alarm" light will come on and the built-in audible alarm will sound. The relay will activate and trigger other security devices attached to the terminal block.

Notice if the Latch is on during an alarm the alarm will remain activated until the Latch is turned Off.

If the Control Unit will not sound an alarm, or is constantly in an alarm, there is a problem in the installation. Turn off the Control Unit and test the fiber loop. Correct and remove any excessive attenuation caused by dirty connections, excessive bends, poor splices, etc. and reset the controller as described above.

NOTE: In some cases, fixing the fiber loop may require testing and/or repairs by a qualified fiber optic technician.

Other Features on the Front Panel:

"Mute" switch: This switch turns the built-in audible alarm on or off.

"Latch" switch: When the "Latch" is on, the alarm will continue to sound as long as the Zone Control Unit is on. The operator has the option to select the latch position monitoring the protected area.