The Teleguard

Part 2 (Conclusion)

Phone accessory automatically calls a preprogrammed telephone number when your burglar/fire alarm sensor is tripped

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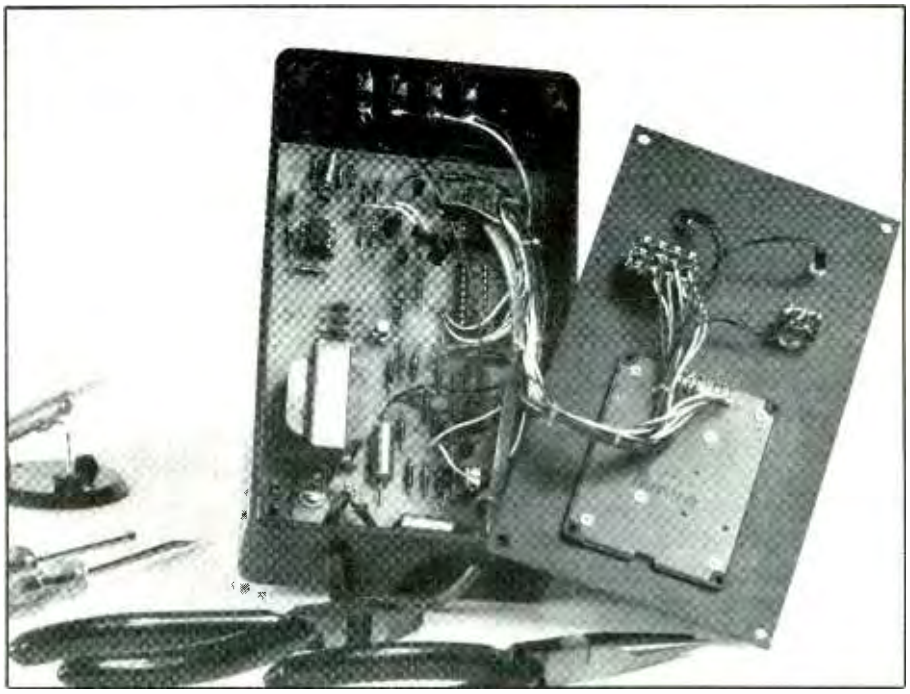
Last month, we described what this useful accessory does, how it does it, constructing the project and initial checkout. In this part, we tell you how to set up the project and how to connect it into your security/fire-alarm system.

Setup and Use

Plug Teleguard's line cord into an ac receptacle and its other cord into the telephone line from the phone company, and switch *S2* to SET-UP. OUTPULSING *LED1* should now light, indicating that Teleguard has established connection to the telephone system. Dial the emergency number you have selected, using Teleguard's keypad. As you do this, *LED1* will flash in accordance with the digits being dialed. When *LED1* stops flashing, switch *S2* to NORMAL to put the system into its "guard" mode.

System operation can be checked by simulating an emergency condition. You do this by activating the external protective circuit (Fig. 4). Before you wire the premises to be monitored with switches and/or sensors, you can simulate the emergency condition simply by using a length of hookup wire to short terminal A to terminal C on *TS1*. This simulates the closing of a normally-open protective circuit (Fig. 4A). If everything is okay, OUTPULSING *LED1* should pulse on and off in accordance with the programmed telephone number. When outpulsing ceases, you can lift the receiver of the telephone that is on the same line as Teleguard and hear the special tone that denotes existence of an emergency condition. (Be sure to alert the party being called, should he answer the telephone, that this is only a test.)



Interior view of the assembled Teleguard project shows neat layout.

Having verified that the system works with normally-open protective devices, it is a good idea to also verify operation with normally-closed devices. Again, you can do this locally simply by jumpering from terminal A to terminal C of *TS1* with one wire and from terminal A to terminal B with a second wire. (This arrangement is detailed in the normally-closed diagram in Fig. 4.) To trip the circuit, simply disconnect wire from terminal B.

Once you know Teleguard is operating as it should, you can proceed to wire the premises to be protected with appropriate sensors and run conductors from the sensors to the project. Although Fig. 4 does not it, you can mix normally-open and normally-closed sensors in your system. To do

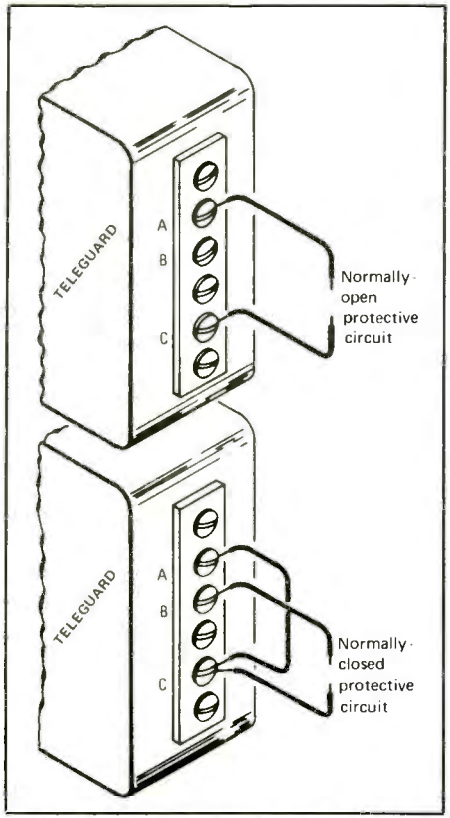


Fig. 4. Teleguard can accommodate both normally-open and normally-closed sensors, depending on how protective circuit is connected.

this, simply replace the wire jumper between terminals A and C of *TS1* with two separate wires and run these to opposite ends of the series string of normally-close sensors.

Should you wish to change the telephone number stored in Teleguard's memory at any time, simply do the following: (1) set *S1* to SET-UP; (2) dial in the new number with the project's keypad *after LED1* extinguishes; and (3) when outpulsing ceases, set *S1* to NORMAL. You can do this any number of times.

If you any reason you wish to deactivate Teleguard, simply disconnect its modular plug from the telephone line but leave its ac line cord plugged into the ac receptacle. This way, the telephone number programmed into Teleguard's memory will not be lost and the project will be ready to be instantly returned to service.

In Closing

With Teleguard at your service, you can have a secure feeling whenever you leave your home or business unattended. With the proper sensors, Teleguard can alert you (or anyone you designate) if an intruder attempts to break into your home or business, a fire starts, water floods a basement, or any other condition that can be indicated by opening or closing a circuit.

In a future article, we will discuss several types of solid-state sensors you can build at low cost for use with Teleguard. These will monitor such conditions as temperature and pressure and detect the presence of fluids. They will enhance operation of Teleguard and provide state-of-the-art protection. ME