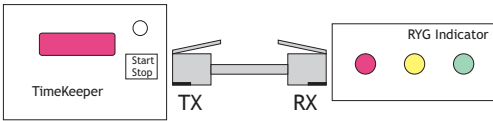
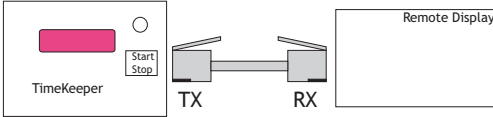


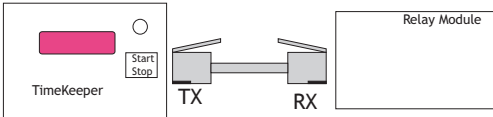
TimeKeeper interconnection diagram



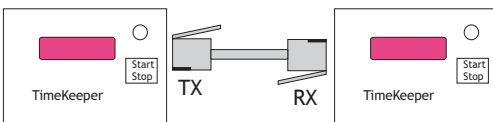
Use Standard Phone Cord when connecting the TimeKeeper to a RYG display



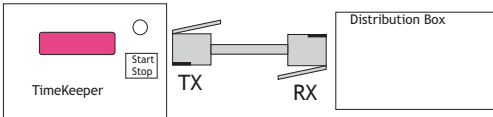
Use Standard Phone Cord when connecting the TimeKeeper to a remote display



Use Standard Phone Cord when connecting the TimeKeeper to a relay module



Use Crossover Phone Cord when connecting two TimeKeepers together.



Use Crossover Phone Cord when connecting the TimeKeeper to a distribution box..

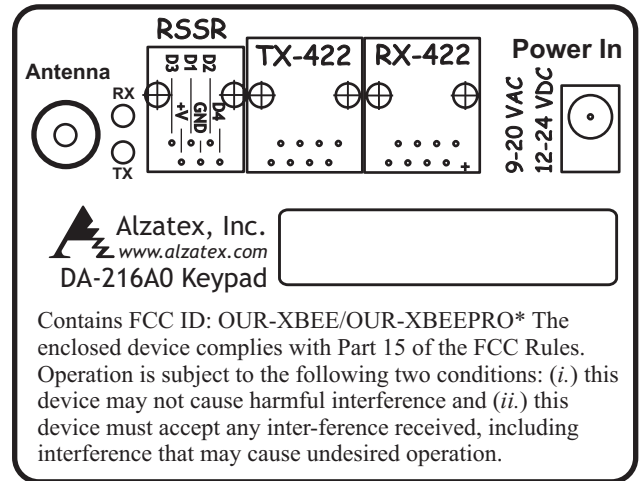
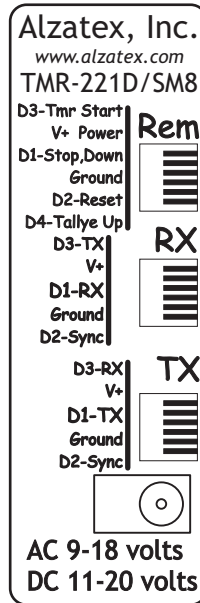
Typical connection arrangements (above).

Connectors for various controllers and displays (side, below)

This document describes typical connector arrangements for some Alzatex products. It also includes the detailed wiring connections for serial connections and remote ground closure inputs used on Alzatex products.

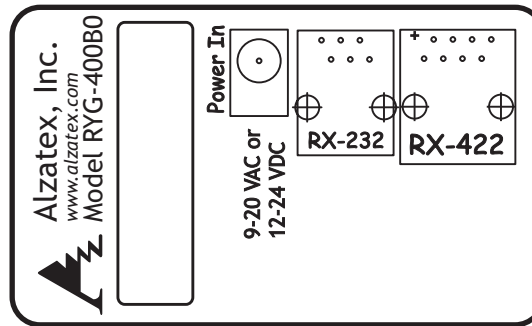
Timekeeper™
TMR-221 Connectors

Timekeeper™
DA-216 Connectors

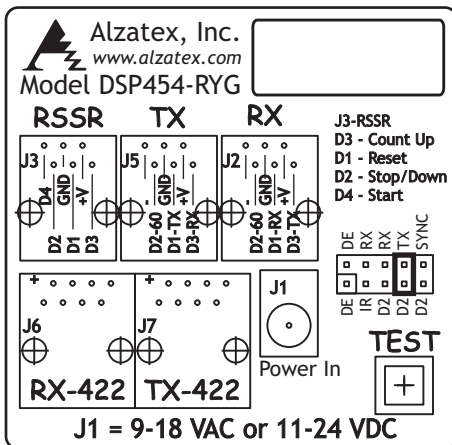


You will notice that some products have RS-422 jacks, some have RJ-11/14 jacks and some have both. Alzatex manufactures adapters to convert from one type to another.

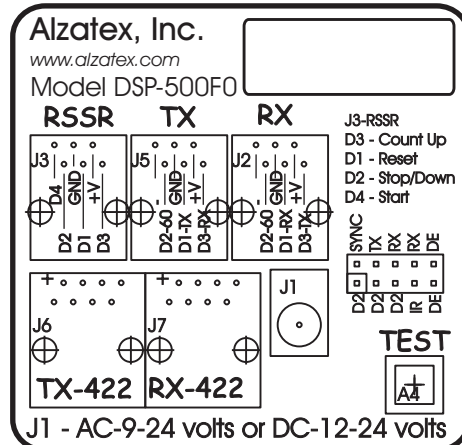
RYG-11 and RYG-400 Connectors



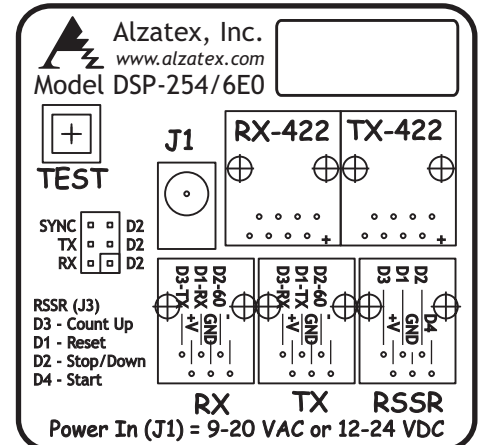
DSP254 Display Connectors



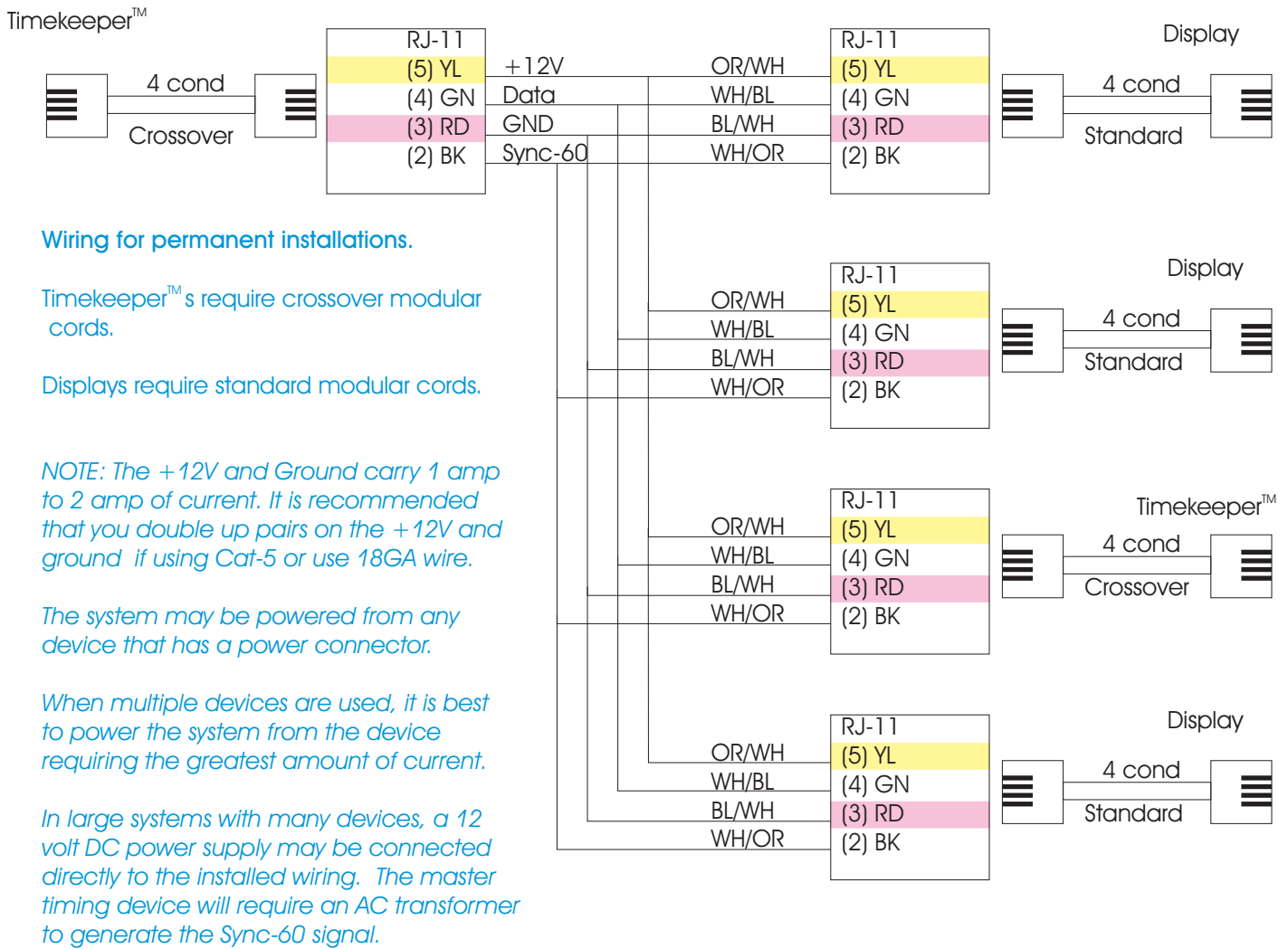
DSP-504 display Connectors



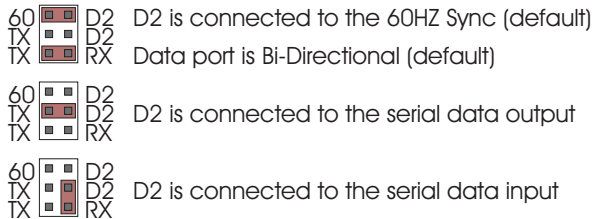
DSP-254, DSP-256 display Connectors



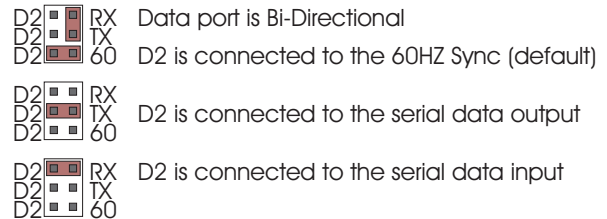
TimeKeeper interconnection diagram



The TMR221 series has this 2x3 pin jumper arrangement

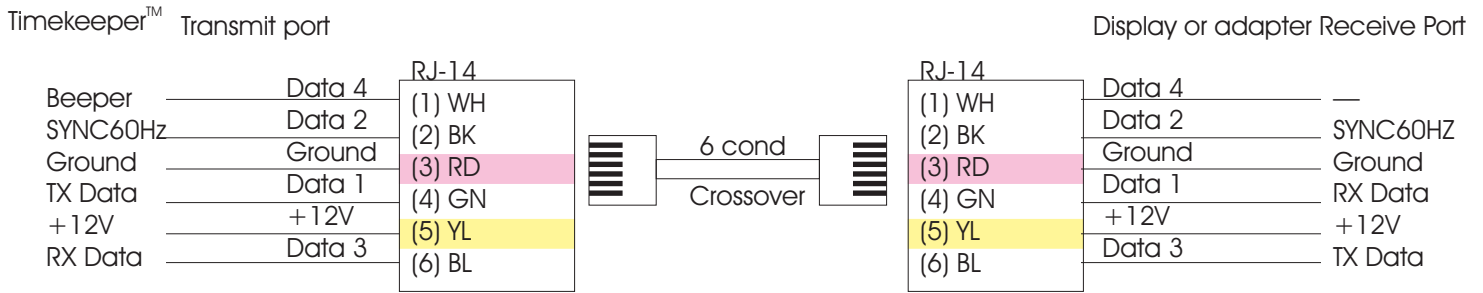


Most other products have this 2x3 pin jumper arrangement



TimeKeeper interconnection diagram

There are several ways to obtain bi-directional data transfer on a RJ-14 port.
Connect the transmit port to the receive port or connect the receive port to the transmit port.



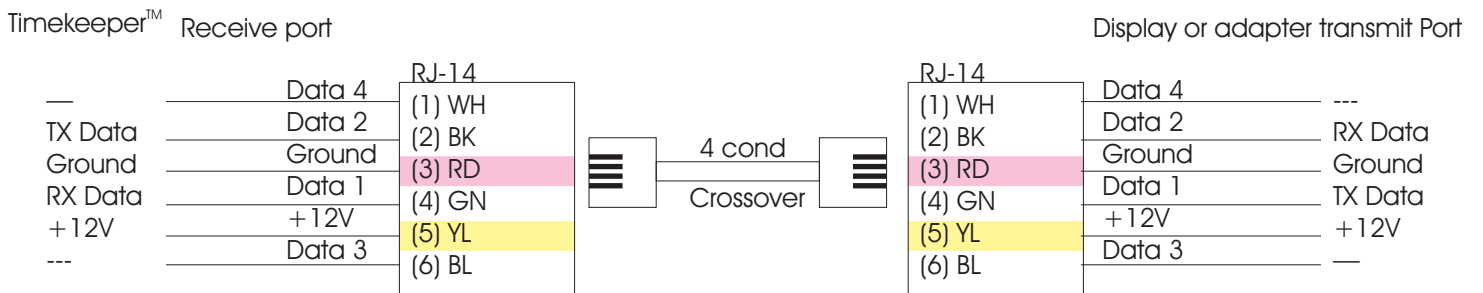
The TMR221 series has this 2x3 pin jumper arrangement



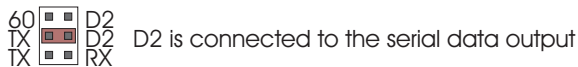
Most other products have this 2x3 pin jumper arrangement



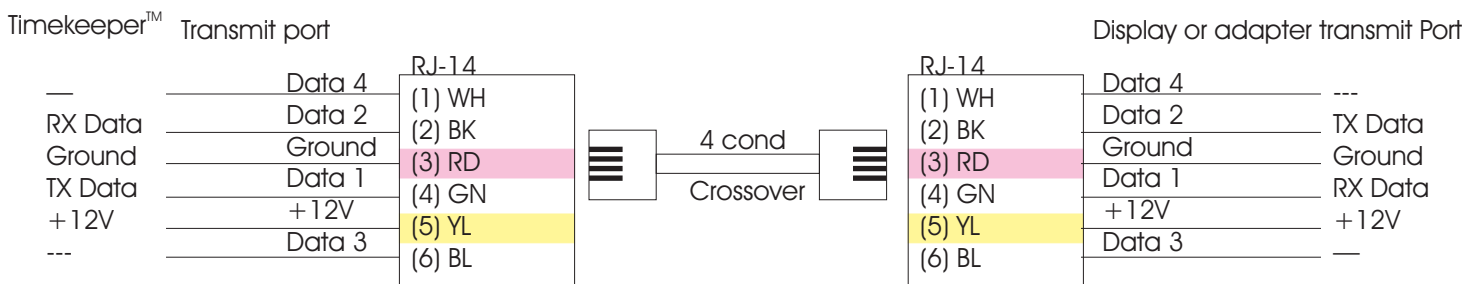
There are several ways to obtain bi-directional data transfer on a RJ-14 port.
In this arrangement, the 60Hz SYNC is not connected.



The TMR221 series has this 2x3 pin jumper arrangement



There are several ways to obtain bi-directional data transfer on a RJ-14 port.
In this arrangement, the 60Hz SYNC is not connected.



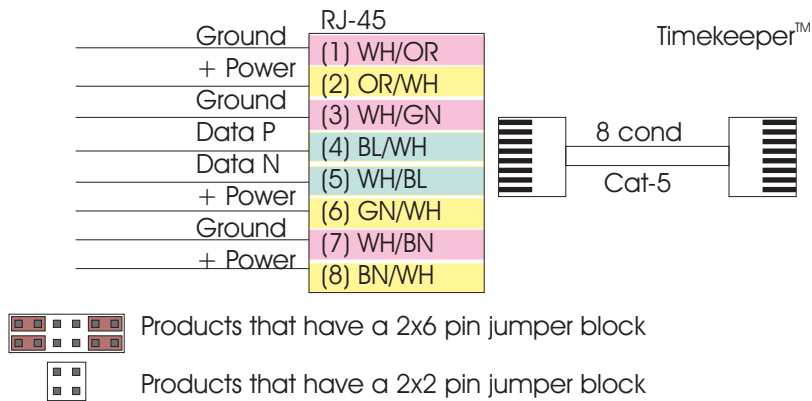
Most other products have this 2x3 pin jumper arrangement



TimeKeeper interconnection diagram

Single Data Channel Timekeeper™ RS-422 Input or Output

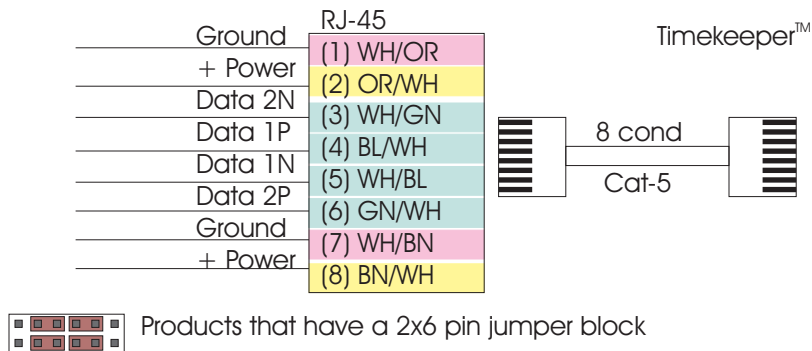
Most products are configured for single data channel communication.



NOTE: Products that do not have jumpers use the above configuration.

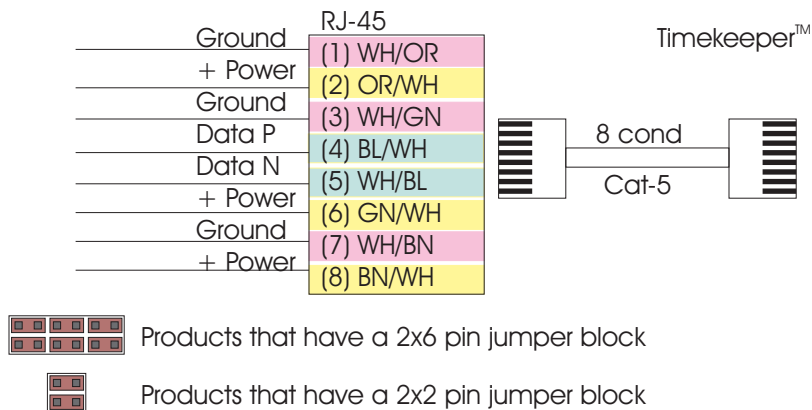
Dual Data Channel Timekeeper™ RS-422 Input and Output

For bi-directional data communication, some products can be configured for dual channel communication

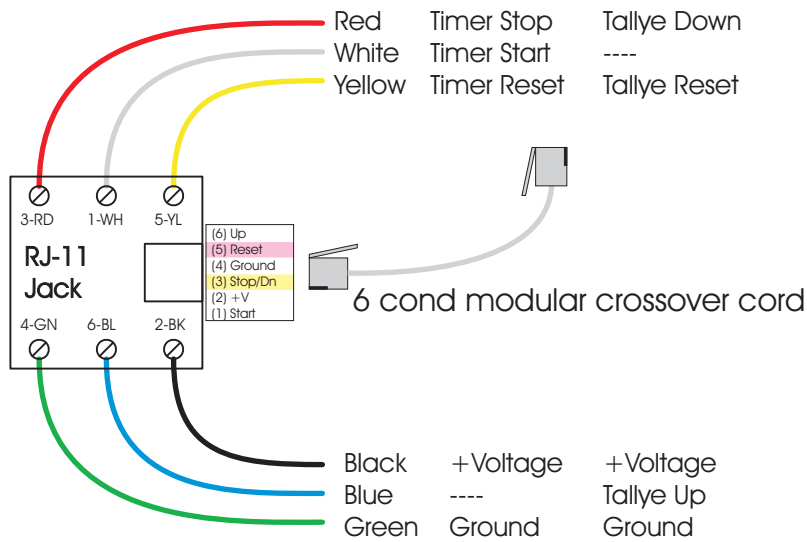
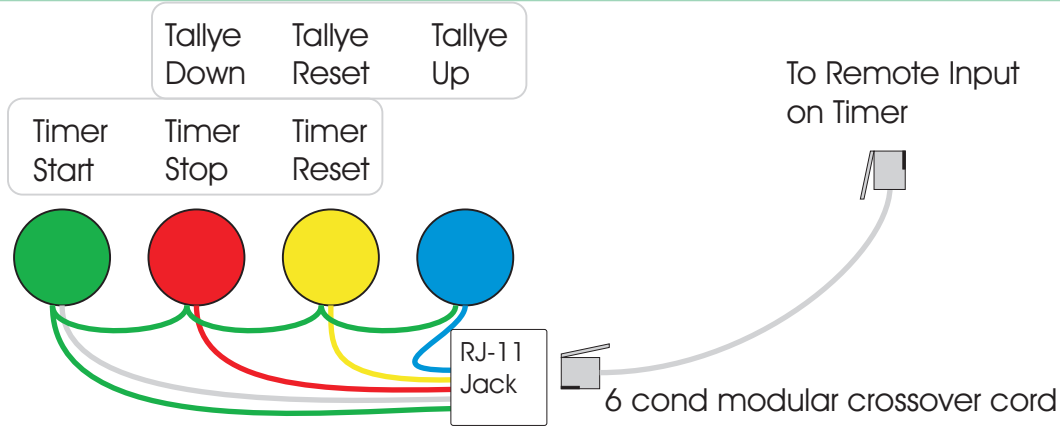


Single Data Channel Timekeeper™ RS-485 Bi-Directional

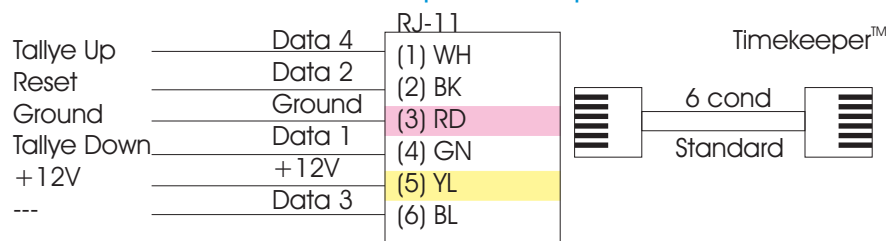
Useful for systems having many devices that need to be addressed individually.



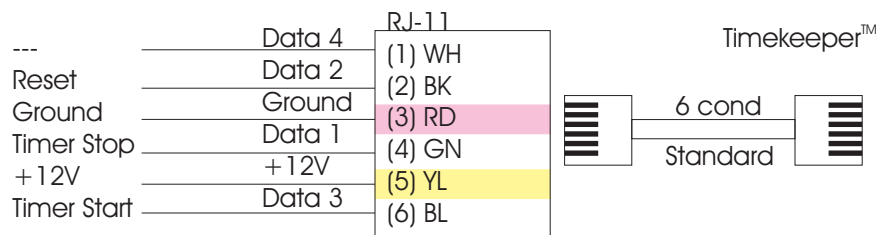
Remote Button Wiring



Timekeeper™ Remote Ground Closure Inputs Setup as a Counter



Timekeeper™ Remote Ground Closure Inputs Setup as a Timer



Cable Adapters and Power Supplies

Alzatex provides adapters to convert from one cable type to another. They can also provide extra power for larger systems. Normal phone cord is used for short distances, up to about 50 feet, while CAT-5 cable is used for longer distances or for units requiring higher power. The diagrams below show typical configurations for these adapters.

