

Control Accessories · **REMOTE CONTROL**



Firgelli Technologies' unique line of Miniature Linear Actuators just became easier to control with our new 2 channel remotes. This remote control unit is perfect for controlling any of our 2-wire '-S' series actuators. Each kit comes with two 2-button remotes which control the actuator to move up or down. The remote kit is designed for use in home automation, automotive and hobby applications where DC power is available and remote control is required. This remote control is NOT compatible with hobby type Radio Control (RC) equipment, or our '-R' actuators.

Remote Control Specifications

Input Voltage	12VDC (8V min. 14V max.)
Switched Current	6 Amps Max.
Standby Current	50mA
Operating Temperature	-20°C to +60°C
Range	100 meters
Dimensions (Receiver)	70mm x 55mm x 30mm
Dimensions (Remote)	62mm x 32mm x 12mm
Frequency	422.92 MHz
Remote Batteries	2x CR2016 (3v Coin Cell) included
Compatible Actuators	L12, L16, P16, T16 -S 12 Volt PQ12 -S 12 Volt (requires cable adapter)

Wiring

Firgelli's Remote Control is extremely easy to install and operate. Simply plug in your Firgelli actuator to the red and black wire from the remote control unit. (PQ12-S actuators will require a cable adapter, not included) Connect your fused 12 volt power source to the black and black with white stripe wires using 1/8" spade crimp connectors or by cutting and splicing the wires. The black with white striped wire is positive 12 volts. The black wire is negative. The third short black wire is the antenna and should be left unconnected. Straighten or extend this wire to improve the range. Secure your remote base unit using double sided tape or two screws through the mounting holes (not provided). Multiple actuators may be wired in parallel to one remote control device, however the total current draw for all the actuators must not exceed the remote units current rating and should not exceed your power supply's current rating.

Operation

Apply 12 volt power to the unit. Press the "UP" button on the remote and the actuator should extend fully. Press the "DN" button to retract. Pressing either button again while the actuator is moving will stop the actuator. Pressing the opposite button while the actuator is moving will reverse the actuators direction. A blue LED should light each time the buttons are pressed to indicate it is functioning.

Applications

- Home Automation
- Hobby Applications
- Automotive

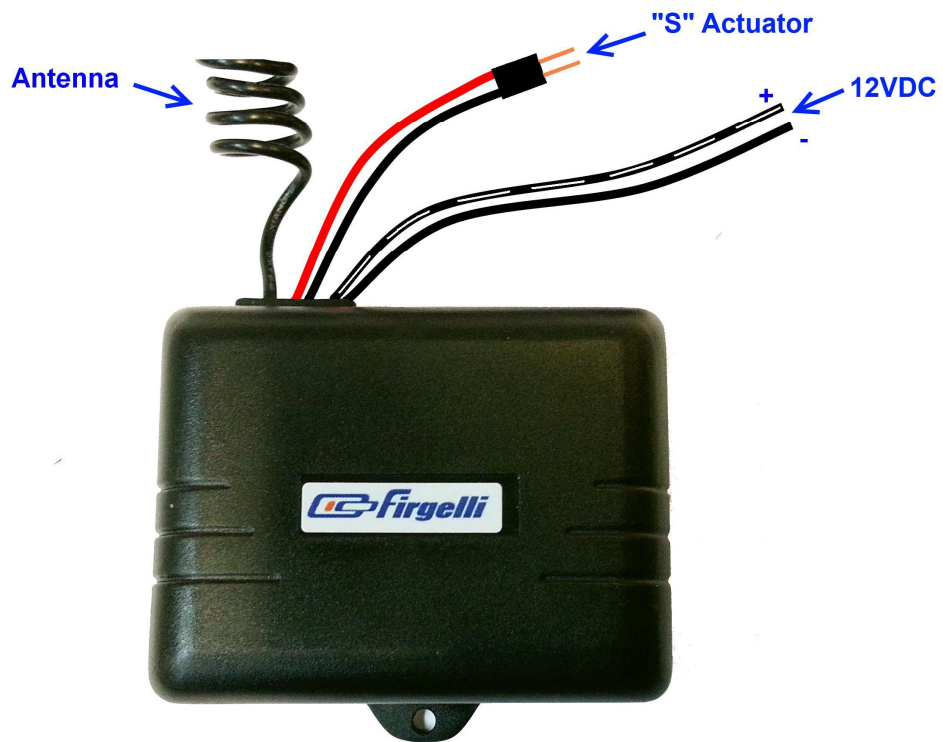


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Wiring Diagram:



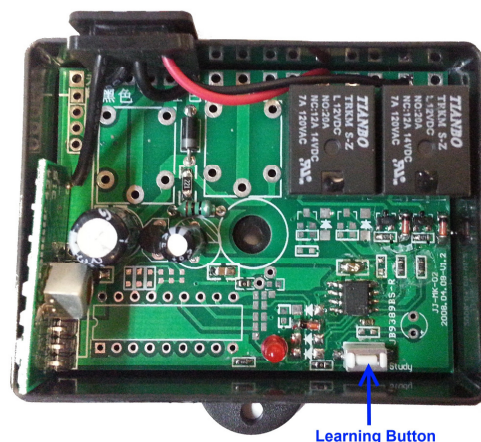
Important Notes:

The 'S' series linear actuators from Firgelli Technologies Inc. have limit switches at both ends of stroke to turn off the actuator once it has reached the limit. The remote control will not turn off the power, so if the actuator is not allowed to reach its full stroke, i.e. it stalls, it will continue to draw power, possibly draining your battery and burning out the actuator. You should test your application to ensure that the actuator is reaching its limit switches at each end of the stroke.

Programming Remotes:

If your remote loses its programming, or you purchase a spare or replacement remote, you will need to program it to work with your remote control unit. Remove the cover of the remote receiver unit with a phillips screwdriver to access the learning button shown in picture below.

1. Learning New Codes: Press and release the learning button, the red LED will light up. Within 5 seconds press one button on the remote, the red LED should go out indicating the remote is successfully programmed. Repeat this procedure for other remotes. The receiver unit can accept up to 40 remotes.
2. Erasing Codes: Press and hold the learning button for 5 seconds, the red LED will flash 5 times, signaling all stored remote codes have been successfully cleared.



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