



Included in this Kit:

- (1) RFAC-1L Receiver**
- (1) 2-Button Transmitter** *Image shown with standard transmitter*

Available accessories:

- **Additional Transmitter KF340-2**
- **Waterproof Transmitter KF340-2WP**
- **Rechargeable Transmitter GKF-WPTX-2**
- **6-Pack of Replacement A-23 12V Batteries A23-6**
- **Long Range Antenna LRA340A** **SEE PAGE 3 FOR SETUP**

The RFAC-1L is a RF receiver operating at a fixed frequency of 340 MHz. The receiver operates from 120VAC to 240VAC input power and provides one AC output at the input voltage. The receiver operates with Model KF340-2 transmitter. Up to 30 transmitters can be stored in the receiver's memory, and are programmed into the receiver's memory during the programming process. A manual On/Off button will operate the control without the need for a remote control. The On/Off button is also used to program remote controls to the receiver. An LED on the On/Off switch indicates the receiver's programming status and illuminates when the relay is energized. The receiver is encased in a small, waterproof enclosure. The receiver provides two wires for input power and two wires for output power. The unit operates a single latching output. The relay will toggle on and off each time a switch is pressed on the transmitter.

Operating Temperature Range: 0°F to 160°F

Waterproof Rating: IP67

Maximum Ratings: Power for the receiver can be in the range of 100-250VAC. The output is rated at 1HP 20A @ 120VAC and 1 1/2 HP 20A @ 240VAC.

Input/output Connections: 100-250VAC input power connects to the Black (line) and White (Neutral) wires. Output power, identical to the input power, connects to the Blue (line) and Yellow (neutral) wires.

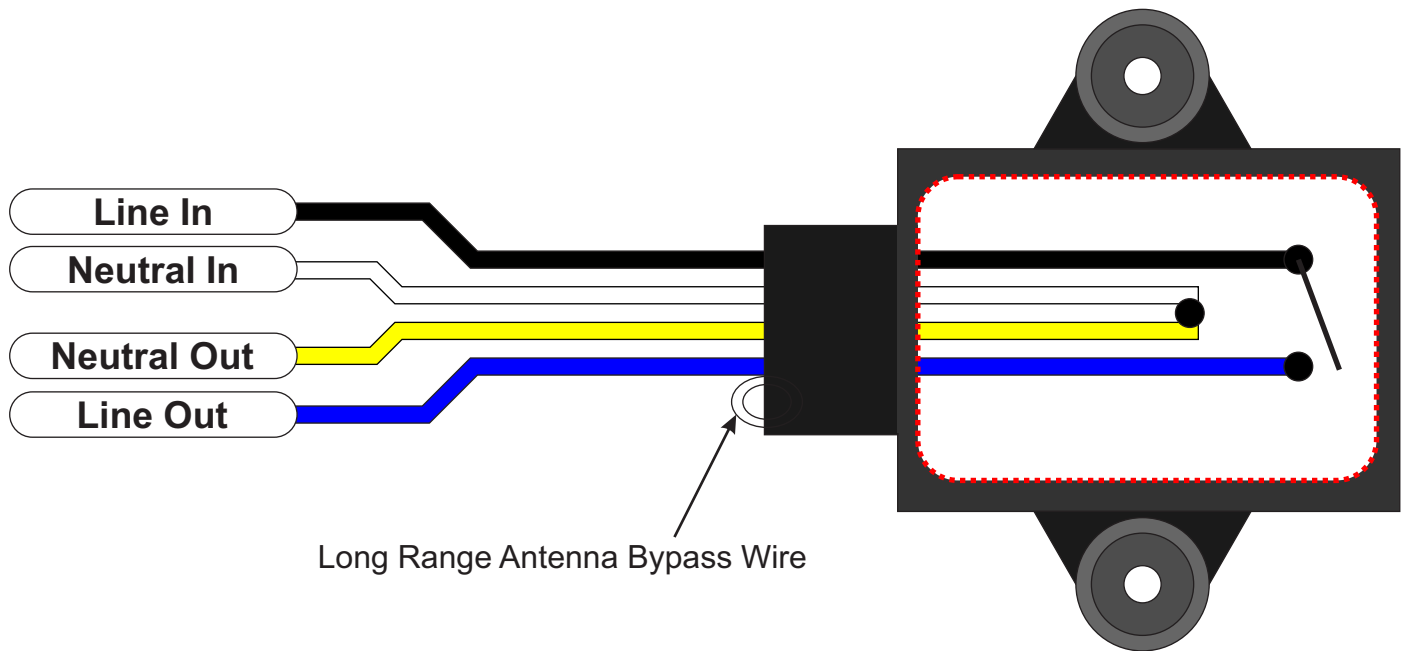
Dimensions: Receiver dimensions are 4.00"W x 2.00"D x 3.67"H.

Programming Instructions

Each transmitter has its own unique address. The receiver needs to be programmed to respond only to the specific transmitter it is intended to operate with. The following steps configure the receiver to operate with a particular transmitter. Up to 12 transmitters can be programmed to one receiver. Please read the entire programming procedure before starting.

1. Locate the pushbutton labeled "ON/OFF" on the receiver. Press and hold this button until the red LED on the switch illuminates and blinks (approximately 3 seconds). The receiver is now in the transmitter program mode. Release the button.
2. To configure the receiver, press and release the UP or Down button on the transmitter and verify that the red program LED extinguishes and illuminates (blinks once).
3. Repeat previous step for additional transmitters that will operate with this particular receiver. The red LED on the receiver will extinguish and illuminate (blink) once for the each transmitter that is programmed. The LED will rapidly blink if a transmitter has already been programmed.
4. The receiver will return to normal mode if no transmitter buttons are pressed for 5-seconds. The red LED on the receiver will blink rapidly, then extinguish. The receiver is now in the normal mode of operation. This completes the programming instructions. The receiver will retain all of its programming even when power is removed.

Wiring Diagram



To Add Long Range Functionality

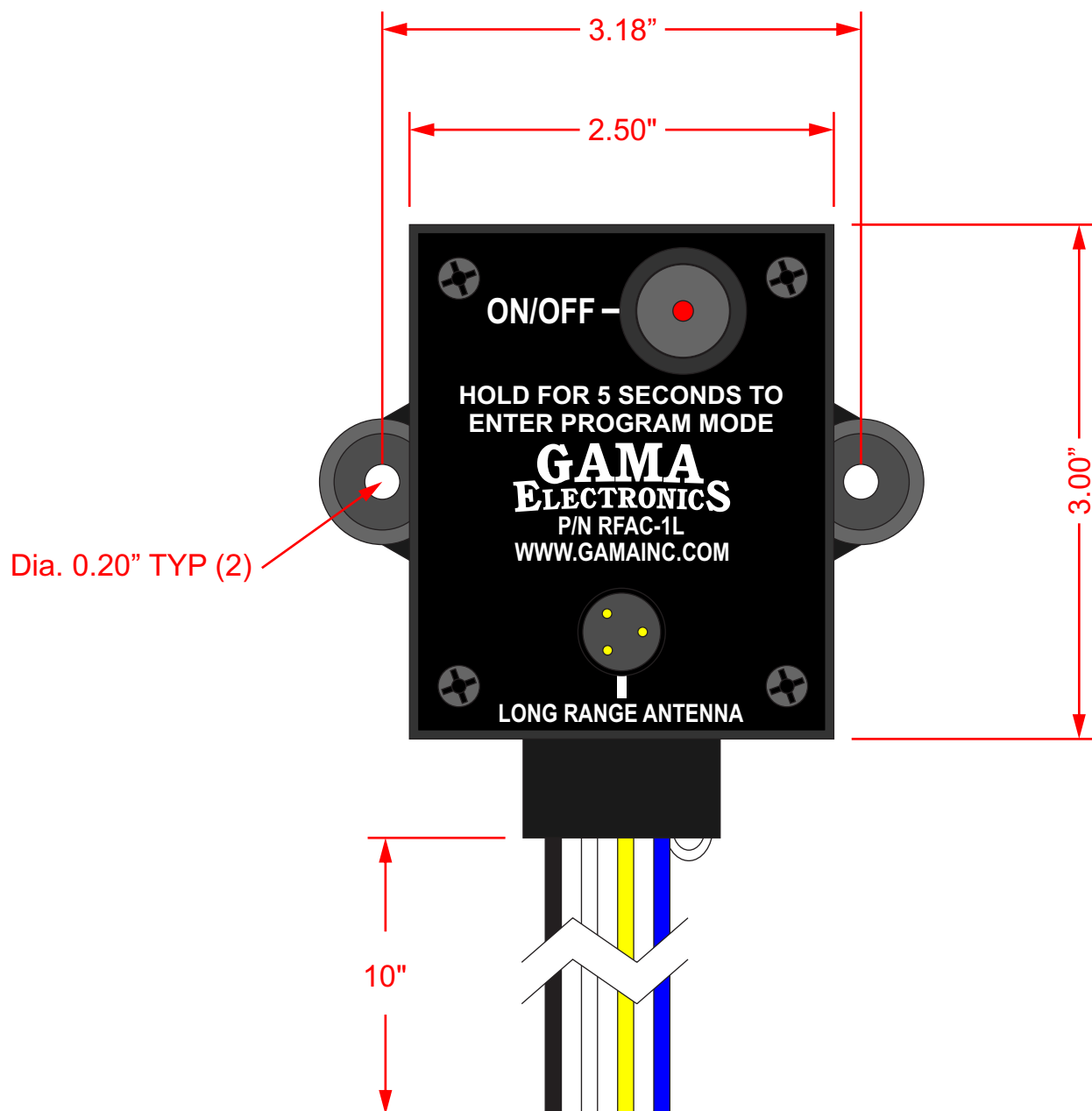
The remote control system is equipped with an internal antenna. The expected range in normal conditions is approximately 100 feet. When additional range is needed, or if the control is placed locations adverse to RF signal reception, a long range antenna can be added to the system. GAMA Electronics long range antenna, part number LRA-340A, replaces the internal antenna on the system. In normal operating conditions expected range is greater than 500 feet. If the long range option is purchased with the system, this modification will be made prior to shipment.

NOTE: ONCE THE LONG RANGE MODIFICATIONS HAVE BEEN MADE TO THE SYSTEM THEY CANNOT BE REVERSED.

To add long range functionality:

1. Plug long range antenna (Part number LRA-340A) into the long range antenna jack.
2. Clip the Long Range Antenna Bypass Wire (This will deactivate the internal antenna)

NOTE: It is recommended that you cover the exposed wires with RTV silicone sealant.



Troubleshooting

All remote-control systems shipped by GAMA Electronics are 100% functionally tested just prior to shipment.

If your RF remote control system does not work out of the box, stops working or functions intermittently please take the following steps to resolve common issues. Please note that you must be at least 2-3 feet away from the receiver when operating the remote control. Operating closer than 2-3 feet may result in no operation or intermittent operation.

1. Replace the A23 12V Battery in the transmitter

- The remote control can activate during shipping and drain the battery that is installed in the control. We send a replacement battery with the system if this occurs.

2. Check the voltage supply at the receiver

- The receiver is designed to function at 100-240VAC. Voltage on the black and white wires should be within this range.

3. Reprogram the remote control

- If the system is non-functional try to reprogram the control. The program may not have taken during the programming process or the program button may have been pressed.

4. Listen and look for functionality on the receiver.

- The LED that is used for programming the system will illuminate when the receiver is activated. You will also hear a “click” when the internal relay engages. If you can see the LED illuminate and you hear the relay “click” the issue is most likely in the wiring or device being controlled.

5. Add a long-range antenna

- If the receiver is in an area that is averse to the reception of an RF signal, such as near a motor or in a metal casing, a long-range antenna may solve the issue. Connect the antenna per the instructions on page 3 and mount the antenna in an exposed area away from any motor.