

MiGROS
154 Wireless
Control
Application
for
Two
Transmitters



Migro 154 Wireless Control Application for Two Transmitters Instructions

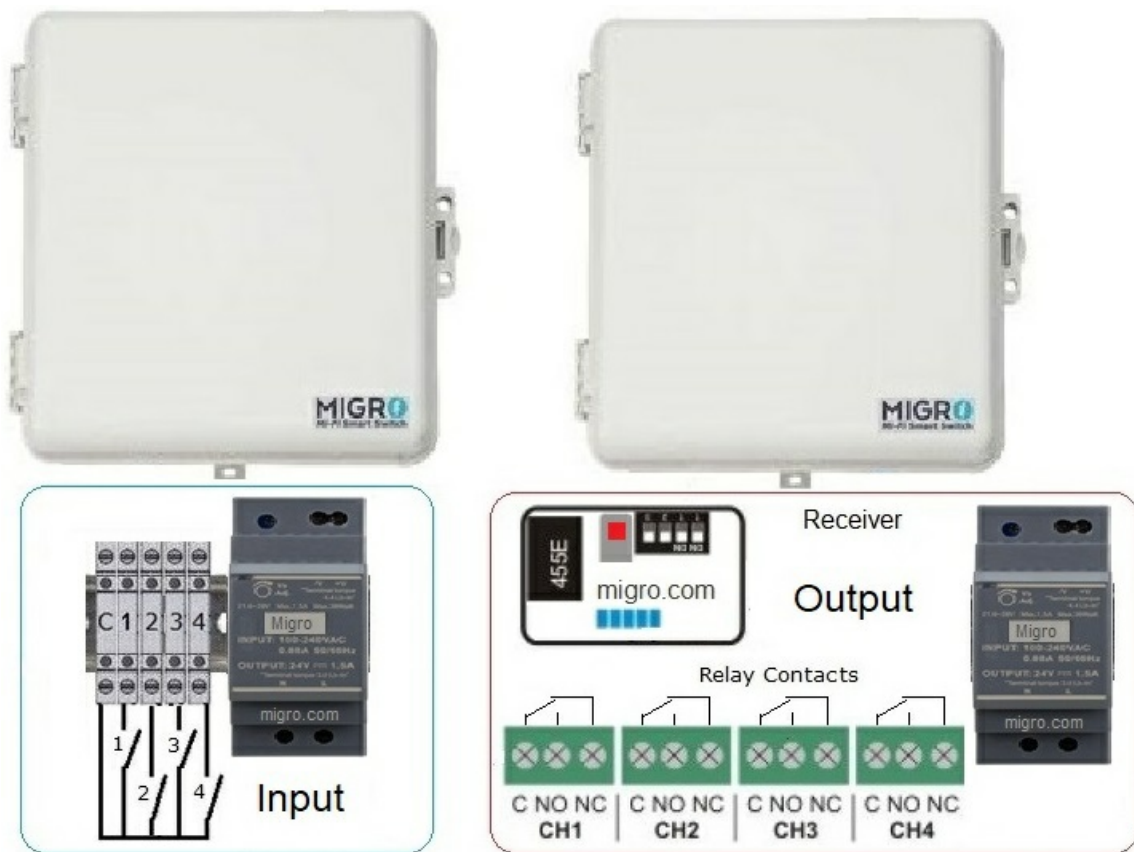
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MiGROS

Migro 154 Wireless Control Application for Two Transmitters



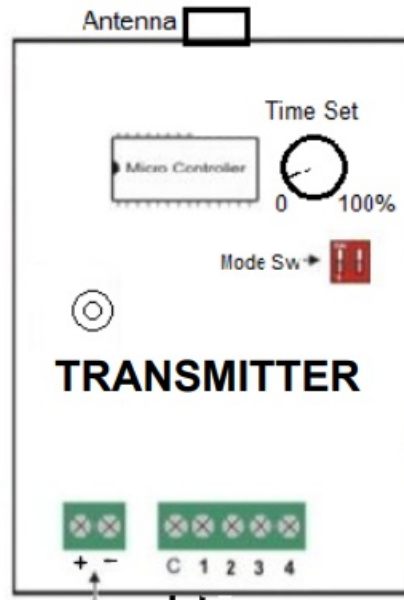
Specifications

- **Product Name:** Migro 154 Wireless Control Application
- **Number of Transmitters:** Two
- **Transmission Type:** Radio

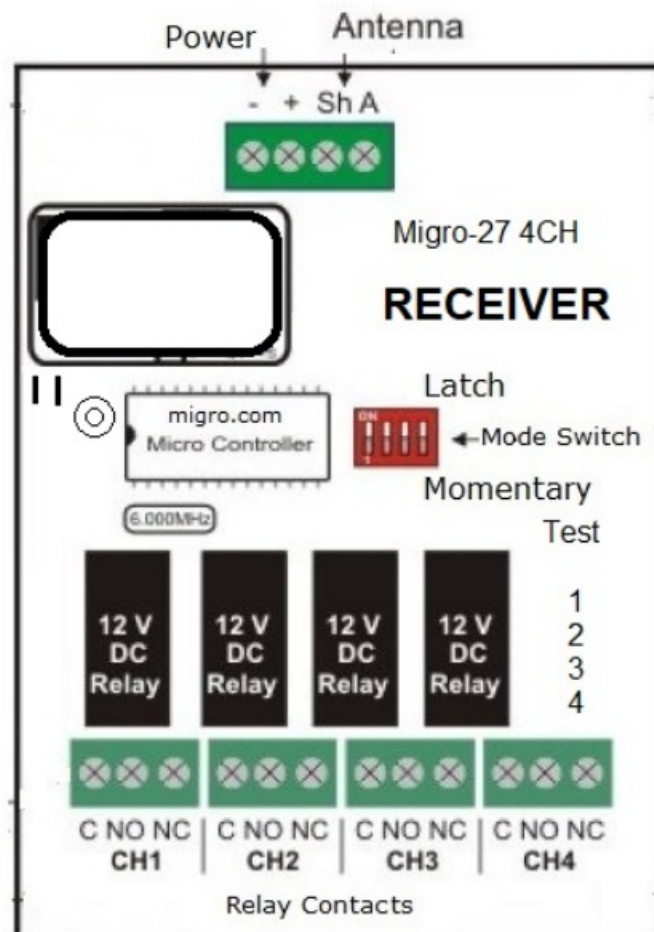
Product Usage Instructions

- **Setting Up Two Transmitters:**
 - **Set the DIP Switches:**
 - Match the DIP switches on transmitter 1 with the receiver.
 - Set a different configuration on transmitter 2 to match with receiver 2.
 - **Use Separate Channels:**
 - Ensure each set of radios operates on separate channels to avoid interference.
 - **Typical Wiring Example:**
 - For the 154 model with two transmitters, follow the wiring example provided in the manual for proper installation.

Channel layout



Detailed transmitter operating mode setting in the Operating Modes section

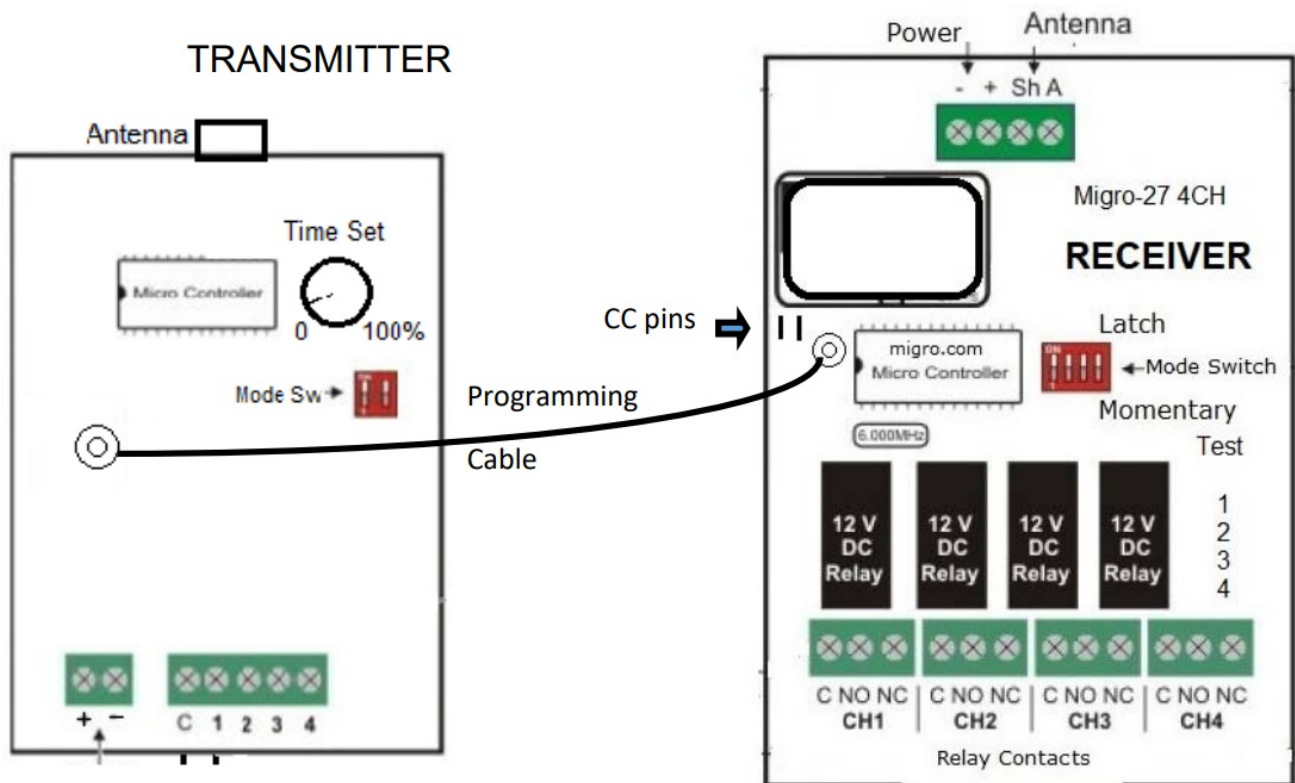


Receiver Output Mode Switch

Each channel can be selected for LATCH or Momentary Operation

- **Latch:** Relay energizes after a single trigger pulse, Deactivates after a second pulse.
- **Momentary:** Relay energizes ON/ OFF with each pulse

RADIOS ALREADY PROGRAMMED



Migro 27MHZ Programming Procedure

This is used to program all channels from a multi-channel receiver to a multi-channel transmitter. Multi-channel programming can be achieved by following the steps below:

- **Step 1:** Connect power to the Migro27® receiver. Make sure all switches on the mode dipswitch are off.
- **Step 2:** Momentarily short the two CC pins on the receiver board. This sets all the channels to a random code. If there are transmitters previously programmed, they will have to be reprogrammed when CC pins are shorted. Do not do this step if you want to keep previously programmed transmitters.
- **Step 3:** Connect the multi-channel transmitter to the multi-channel receiver by inserting the Migro27® Red cable into the transmitter's and receiver's 2.5-mm Coding socket. (This will activate the programming mode and is indicated by the red light (LED), on the transmitter that must remain "on").
- **Step 4:** Activate any two channels simultaneously on the multi channel transmitter for one second, LED should blink twice to confirm code programming and then switch "off".
- **Step 5:** Disconnect the Migro27® cable.
 - Repeat steps 3 to 5 to program another multi-channel transmitter.
 - If you are programming another transmitter, do not short out the CC pins. Shorting out the CC pins will delete all previously programmed transmitters.

Forward Programming receivers have an additional programming feature, known as forward programming. This feature allows the user to program the transmitter code into the receivers. This will enable the transmitters to activate unlimited number of receivers simultaneously.

Forward Programming Steps:

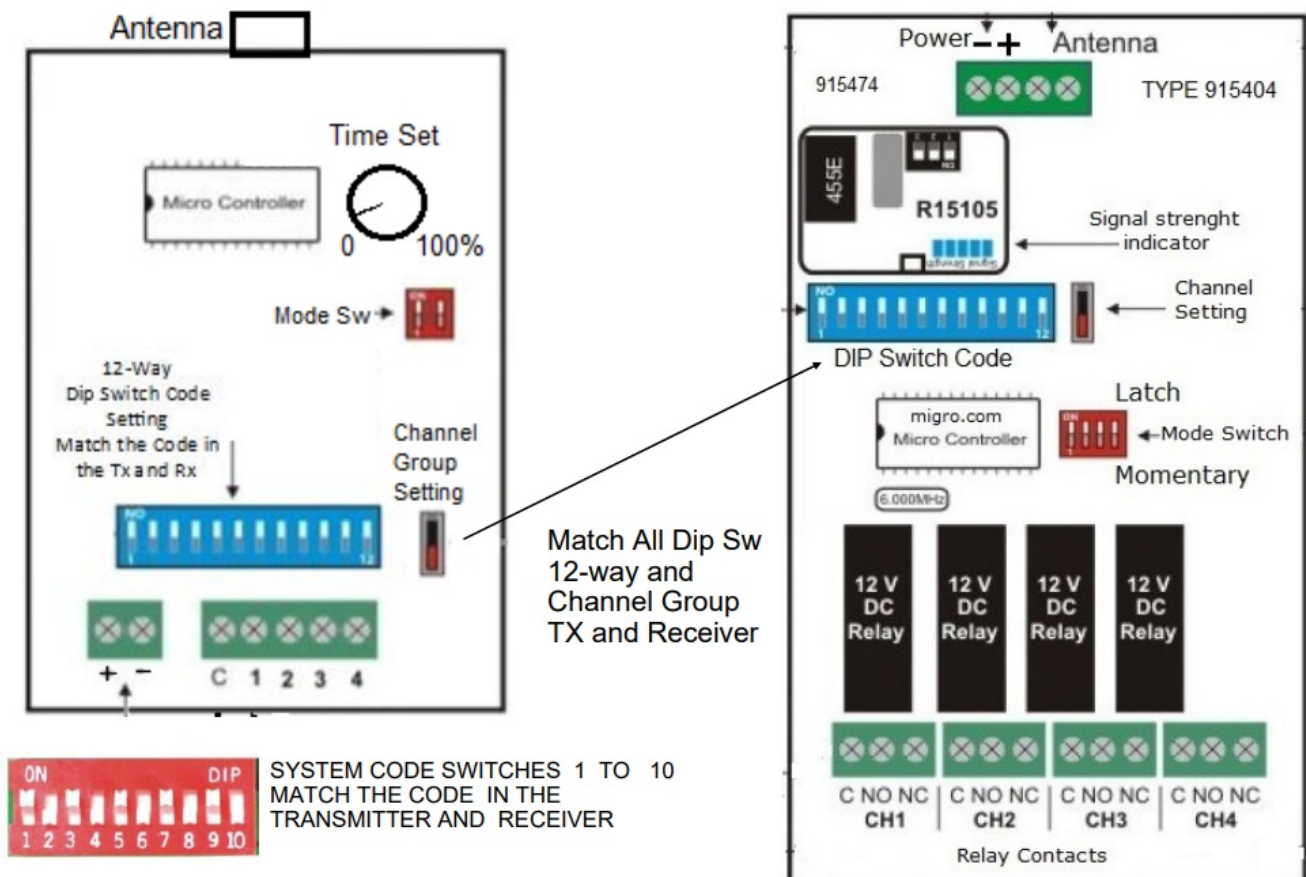
- **Step 1:** Connect power to the receiver and transmitter.

- **Step 2:** Place a jumper across the CC pins of the receiver.
- **Step 3:** Connect the transmitter and receiver using the coding cable.
- **Step 4:** Close the transmitter CH1-CH2 to C for 2 seconds.
- **Step 5:** Remove the coding cable.
- **Step 6:** Remove the jumper from the CC pin.

The receiver is now programmed with the transmitter's code. Repeat the above steps to program another receiver.

Before The Installation

Series 915400 154 MHz Wireless Control System TEST the system before the installation ON a bench for proper setup and operation



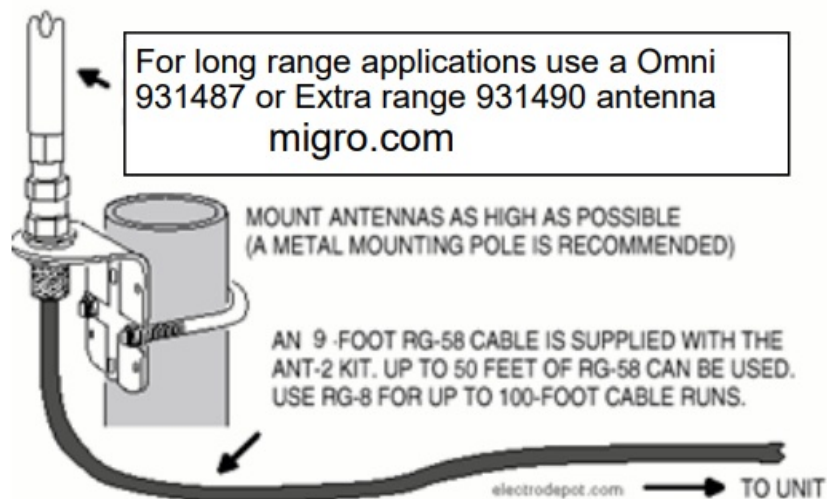
NOTE: Transmitter and receiver antennas shall be mounted facing the same vertical position, (same polarity pattern) even when there is no line of sight.

Never operate the transmitter or receiver without the antenna.

Separate the transmitter and receiver ANTENNAS at least 6 feet (2 meter) apart Make sure the 12 code DIP switch from the transmitter matches the receiver

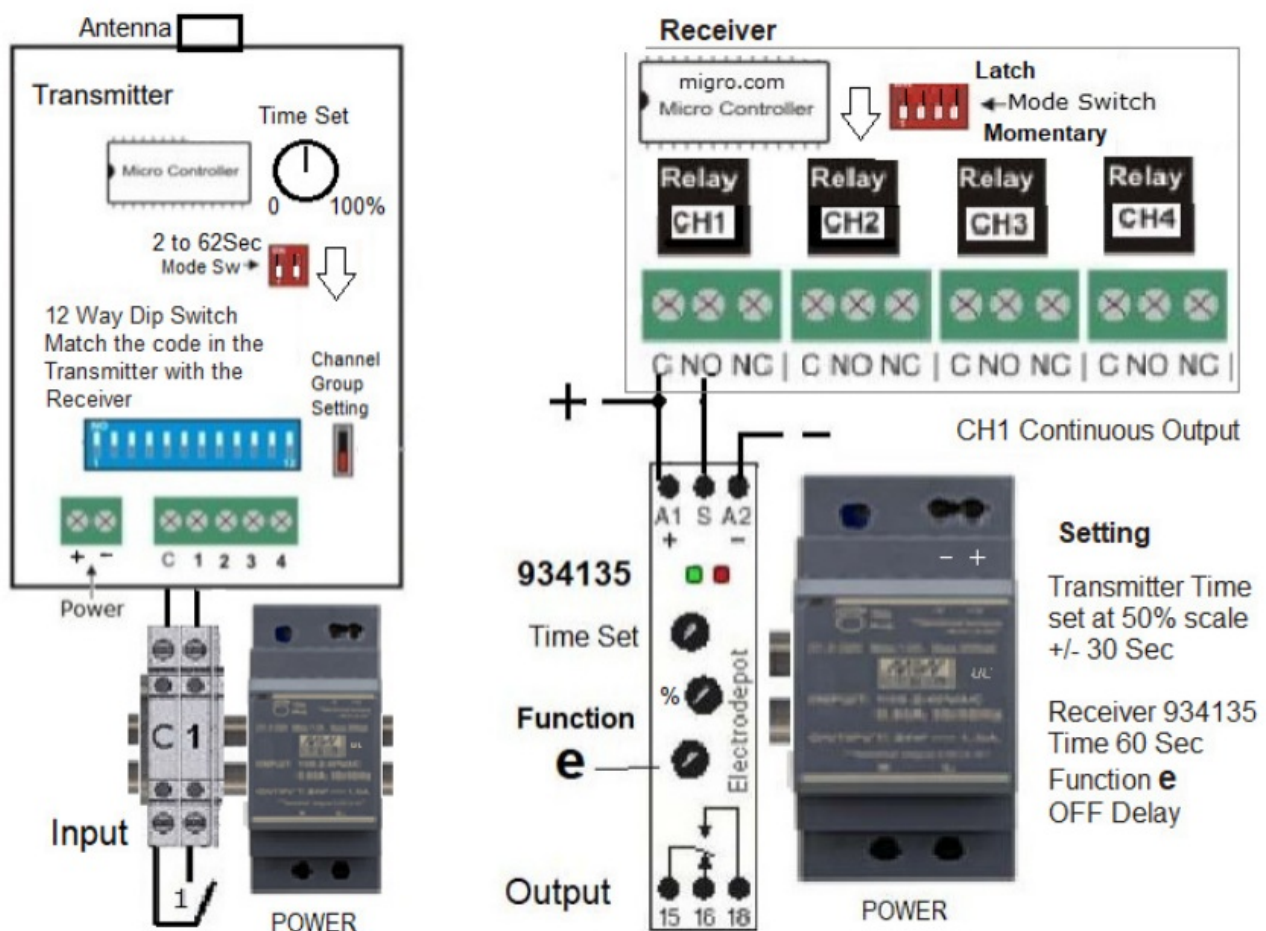
1. Connect the Transmitter & Receiver to a power source
2. In the TRANSMITTER terminals (-) & (Ch1) Close momentary INPUT Ch1
 - At the RECEIVER the Signal Strength level ***Will light up, To confirm communication
 - Relay energizes. Check contact status with a meter
3. Same procedure for each channel
 - Relay Contact is SPDT N/O-N/C

- Rated 5 Amp, maximum 250V



- **Warning:** Radio control equipment in not to be used in life safety. **DISCLAIMER:** Contact a licensed professional for your project.

TEST the system before the installation **ON** a bench for proper setup and operation



NOTE: Transmitter and Receiver antennas shall be mounted facing the same vertical position, (same polarity pattern) even when there is no line of sight.

Never operate the transmitter or receiver without the antenna. Separate the Transmitter and Receiver at least 6 feet (2 meter) apart

Make sure the 12 code DIP switch from the Transmitter matches the Receiver

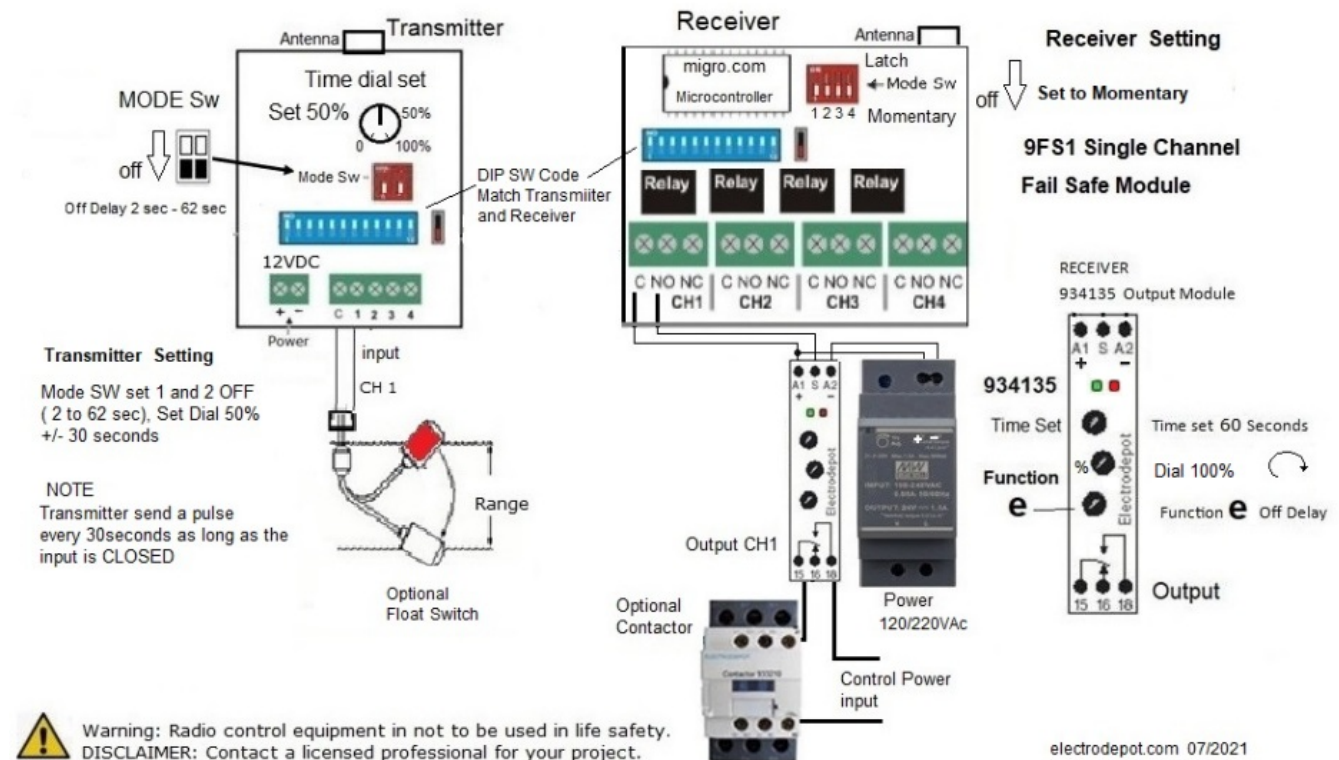
1. Connect the Transmitter & Receiver to a power source
 - **NOTE:** CH1 Continuous operation, CH2, 3 and 4 (Pulse)
2. At the Transmitter terminal Close INPUT CH1 with a wire jumper (Hold) Transmitter will send pulses, At the Receiver the relay 934135 energizes. (ON All the time)
3. Release the jumper from INPUT CH1, The relay 934135 at the Receiver will disconnect after the OFF time delay is Expired: +/- 60

Warning: Radio control equipment in not to be used in life safety.

DISCLAIMER: Contact a licensed professional for your project.

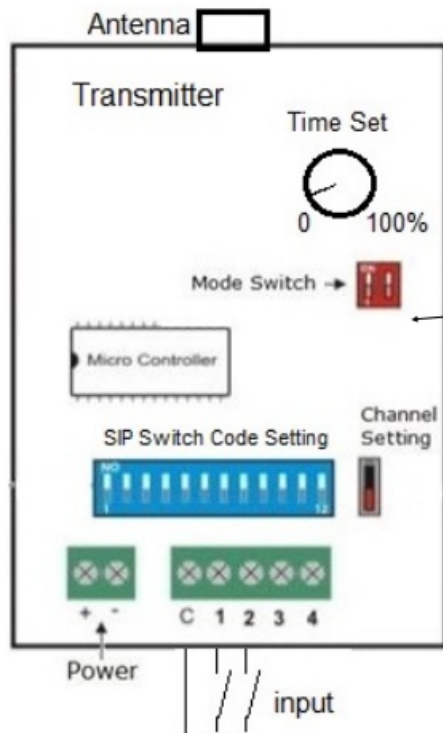
Wireless Application Example

915410 Fail Safe Wireless Application Example



electrodepot.com.

Typical wiring diagram



Using the 9SS1 Module

Application

Start Stop or High Low Level

Set Mode to:

One Burst Transmission ON ON

Installation an setup manuals at:

<https://electrodepot.com/manuals/>

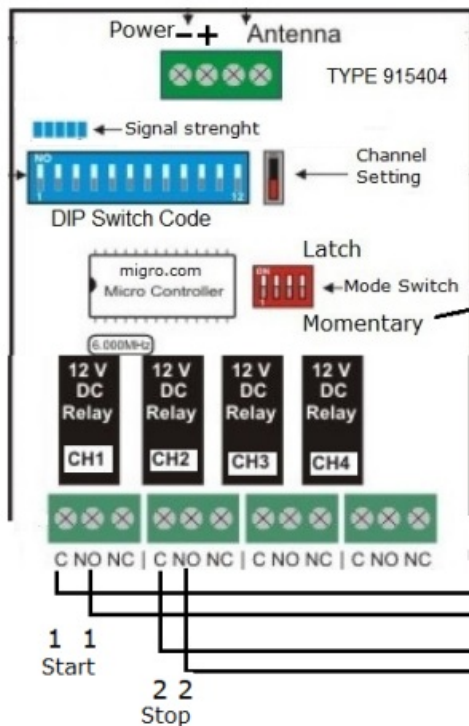
9SS1 Start/Stop Output Module

Two input from the receiver relay

One output to energize the external contactor

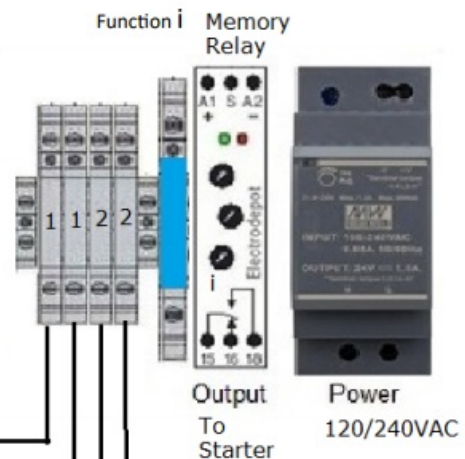
Transmitter send a momentary pulse via Channel One (1) to START; the Receiver Control Module Output turns ON

It will stay ON Until the transmitter sends the STOP signal via Channel Two (2) to turn the Receiver Output OFF



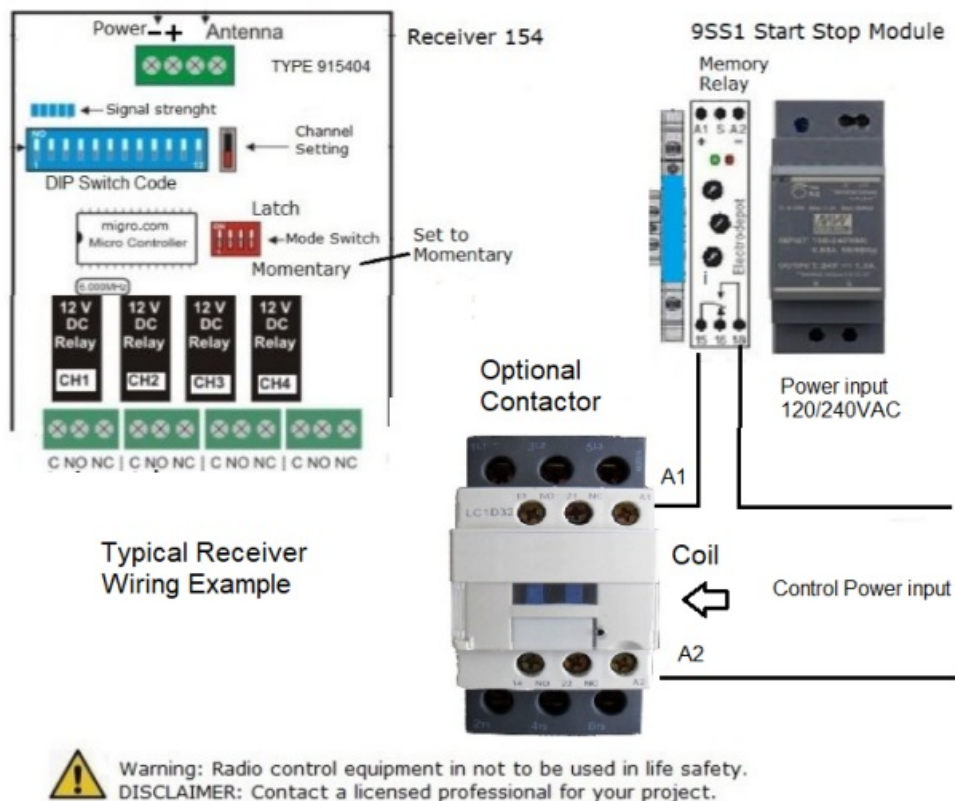
Receiver 154

9SS1 Start Stop Module



Radio control equipment in not to be used in life safety. Installations shall be performed by a certified professional.

Typical Wiring Example Start Stop Module

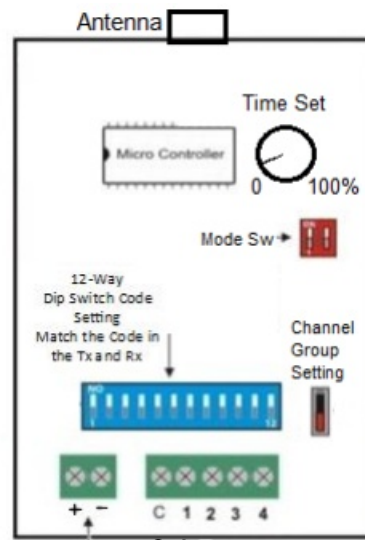


Transmission Timing

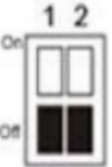



- **Mode Sw:** 2 Dip switch setting

See Transmitter Modes

- **Time Set:** Dial to fine tune the timing range
- **By Example** 0 to 100% = 2 to 62 Seconds
- (*) Maximum continuous transmission time per FCC; 5 minutes



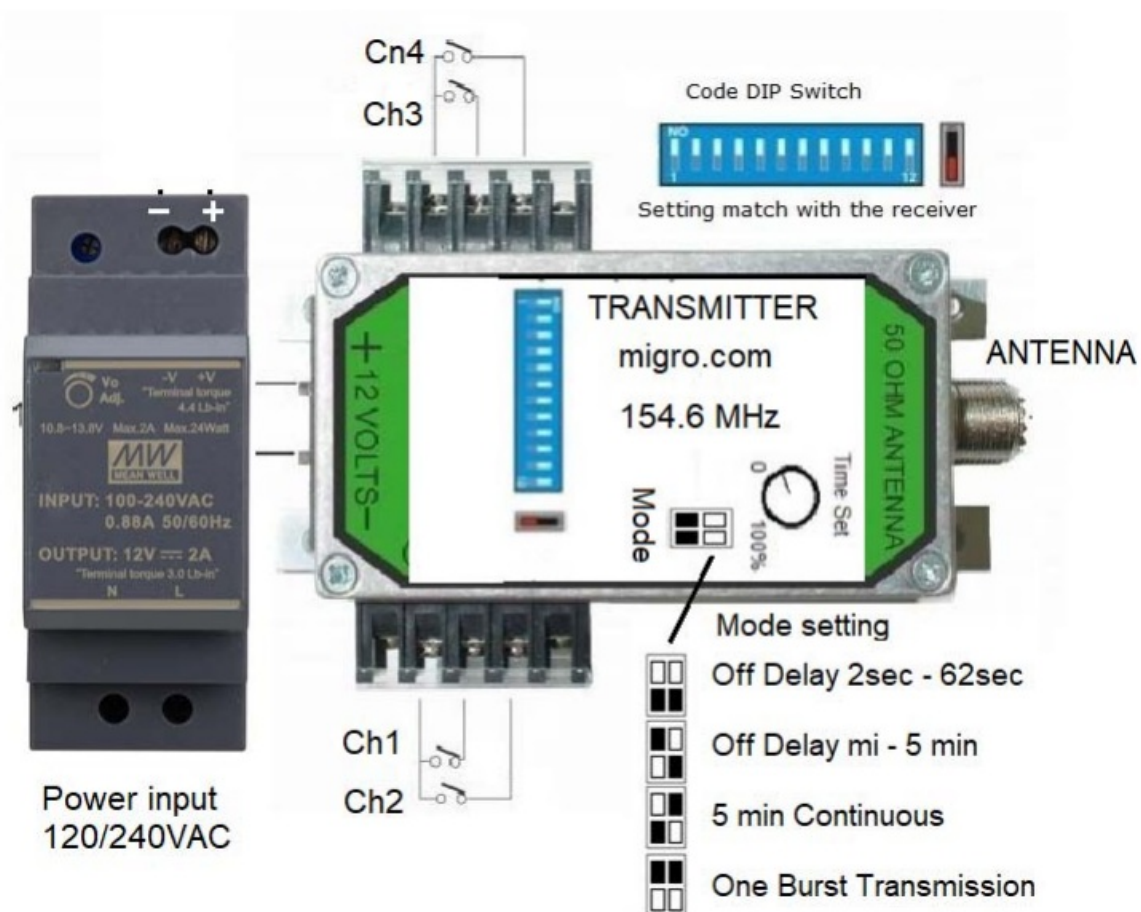
Transmitter Modes

	<p><i>Off Delay 2 – 62 seconds</i></p> <p>Transmitter will transmit a 1.5 second transmission burst and then stop for the "off delay" time selected. The "off delay" time is user selectable between 2 to 62 seconds by adjusting trimpot on the transmitter board. If the inputs change during the "off delay" period, the new code will be transmitted immediately. When the "off delay" time lapses, transmitter will transmit another burst. The transmitter will cycle (transmission and off delay) indefinitely, if at least one input is ON and supply is connected.</p>
	<p><i>Off Delay 1 – 10 minutes</i></p> <p>Same as mode 1 except the "off delay" is user selectable between 1 to 10 minutes.</p>
	<p><i>Continuous Transmission*</i></p> <p>Transmitter will transmit continuously, if at least one input is activated and supply is connected. A transmission limit of five minutes is used to comply with local radio regulations. To activate a receiver longer than 5 minutes, use a delay off feature in the receiver (FMR15101) and transmitter. The delay off feature in the receiver needs to be set <u>more</u> than the transmitter. This ensures that the transmitter keeps resetting the off delay in the receiver.</p>
	<p><i>1.5 – 10 seconds one burst transmission</i></p> <p>Transmitter will transmit one burst and then go to standby or sleep mode. Adjusting the trimpot will vary the burst length. When the input is changed and supply is connected, transmitter will transmit one new burst of the new code.</p>
<p>Sleep mode (10 uA) is activated when all inputs are OFF; this applies to all four modes</p>	

(Grey illustrates the position of the DIP switches)

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- **DISCLAIMER:** Contact a licensed professional for your project.

Migro 154 Transmitter Version 2



TEST the system before the installation ON a bench for proper setup and operation

- Never operate the transmitter or receiver without the antenna.
- Separate the Transmitter and Receiver at least 6 feet (2 meter) apart
- Make sure the code on the DIP switch from the Transmitter matches the Receiver
- To access the settings, "Remove the cover 4 screws"

NOTE: Transmitter and Receiver antennas shall be mounted facing the same vertical position, (same polarity pattern) even when there is no line of sight.

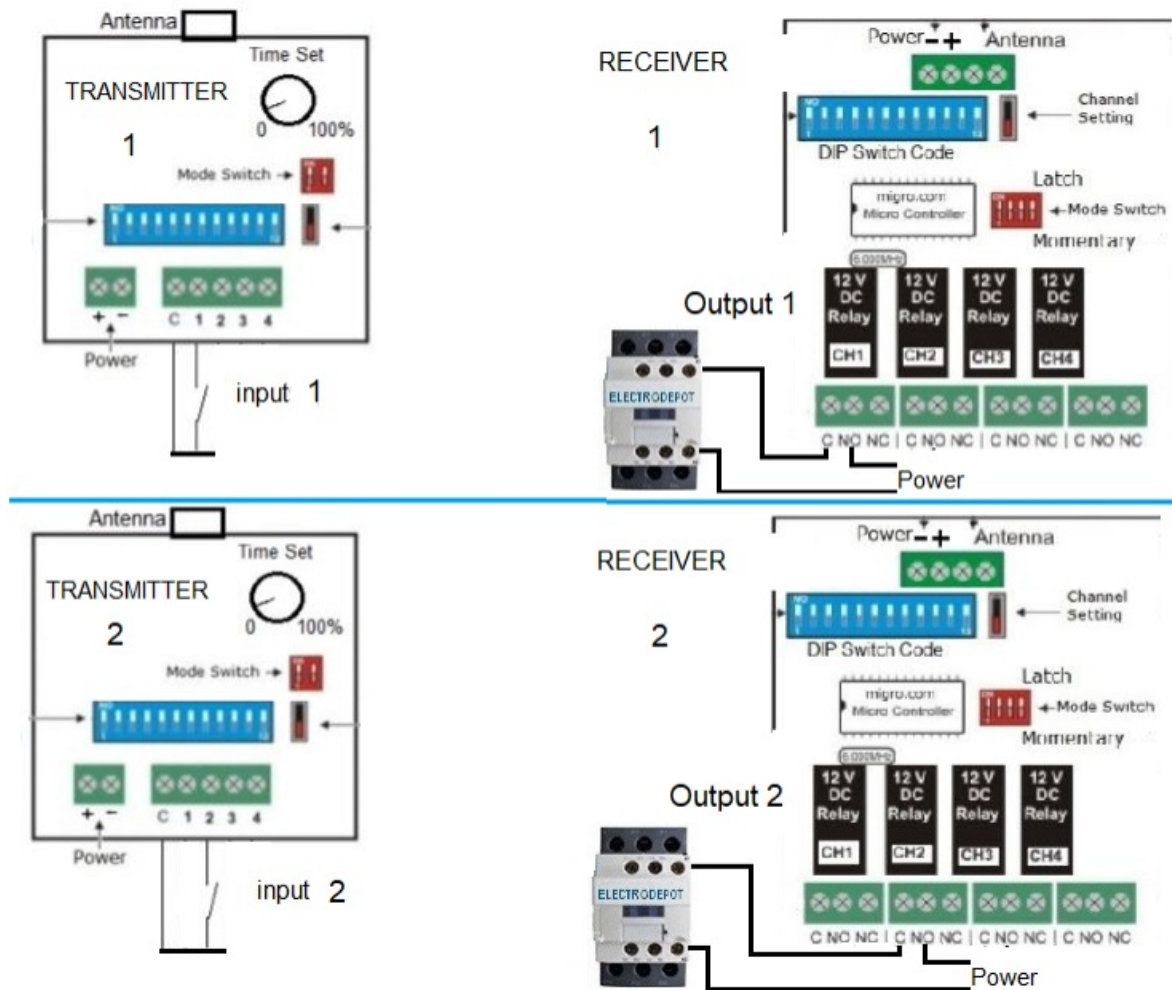
- **Warning:** Radio control equipment in not to be used in life safety.
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Migo 154 Wireless control Application for Two transmitters

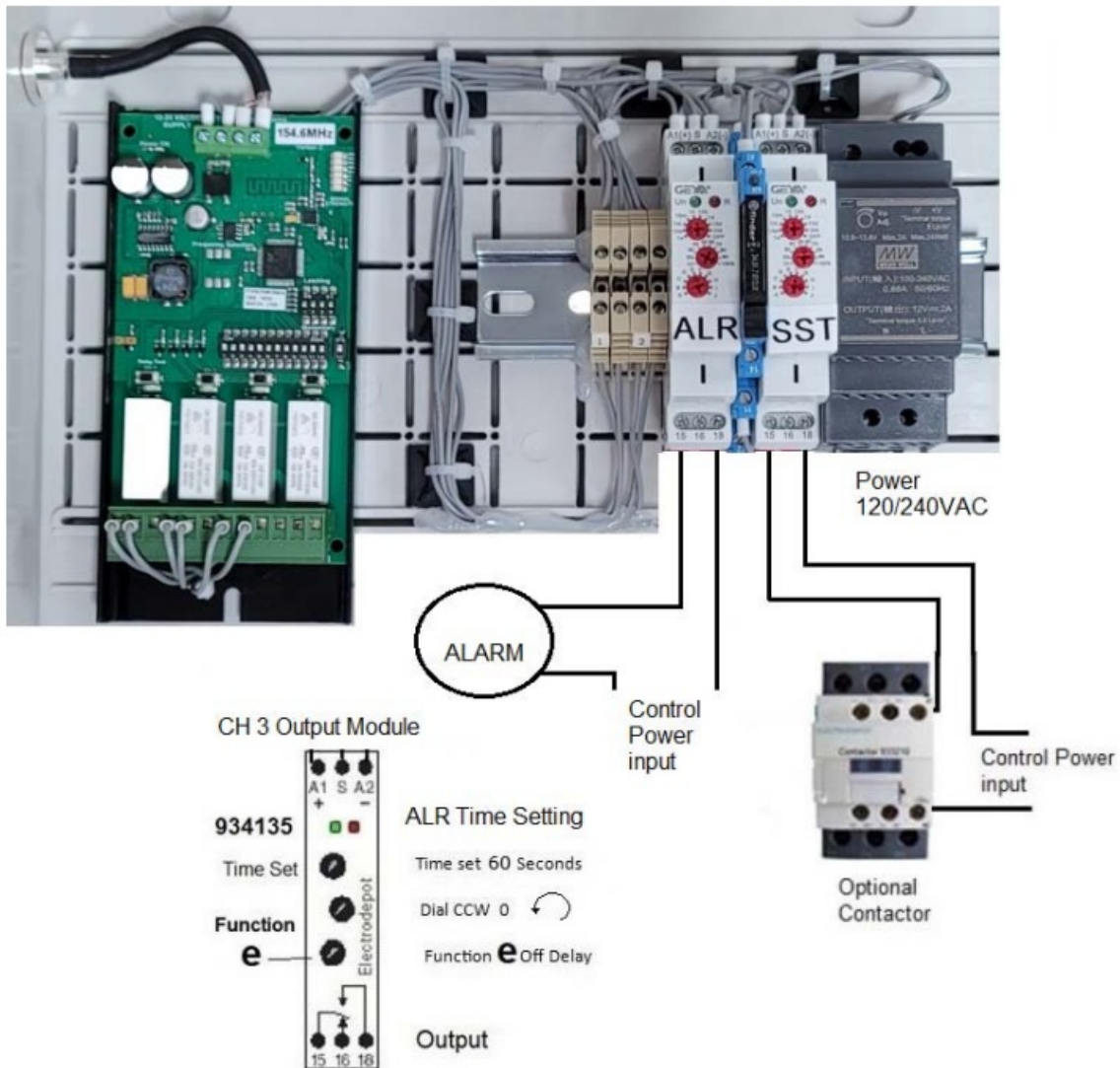
When Radio installation require Two Transmitters in proximity, the following procedure is recommended

1. Set the DIP Switches to match transmitter and receiver 1
2. Set a Different match for transmitter and receiver 2
3. Use Separate Channels in each set of radios (Alternate channels to avoid interference)

Typical wiring example



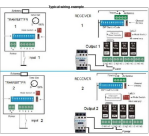
154 Special Receiver Start Stop with Alarm



FAQs

- **Q: How do I know which channels to use for separate radios?**
 - **A:** Refer to the user manual for recommended channel configurations to avoid interference between the two transmitters.
- **Q: Can I use more than two transmitters with the Migro 154 system?**
 - **A:** The Migro 154 system is designed for two transmitters. Using additional transmitters may not be supported and could lead to performance issues.

Documents / Resources

	<p>Migro 154 Wireless Control Application for Two Transmitters [pdf] Instructions</p> <p>154, 154 Wireless Control Application for Two Transmitters, 154 Wireless Control Application, 1 54 Wireless Two Transmitters, Transmitters</p>
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References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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