



Windynation LIN-SPSU-12 Linear Actuator Wireless Controller User Manual

[Home](#) » [Windynation](#) » Windynation LIN-SPSU-12 Linear Actuator Wireless Controller User Manual 

Contents

- [1 Windynation LIN-SPSU-12 Linear Actuator Wireless Controller](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 OVERVIEW](#)
- [5 INSTALLATION](#)
- [6 Optional Equipment](#)
- [7 OPERATION](#)
 - [7.1 Pairing Instructions](#)
- [8 TROUBLESHOOTING](#)
- [9 WARRANTY](#)
- [10 Documents / Resources](#)
- [11 Related Posts](#)

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Windynation LIN-SPSU-12 Linear Actuator Wireless Controller



Product Information

- **Product Name:** Windy Nation Linear Actuator Wireless Controller
- **Model Number:** LIN-SPSU-12 LIN-RCSW-WL
- **Compatible Products:** Windy Nation DC Linear Actuator Line
- **Description:** The Windy Nation Linear Actuator wireless remote control is a complete set of application configurable components used to control and complement the Windy Nation DC linear actuator line.
- The controller is easy to use and offers stable performance with low power consumption.
- **Features:**
 - Works with multiple transmitters for remote push-button operation
 - Allows precise limits for raising and lowering the actuator arm
- **Specifications:**
 - **Operating Voltage:** 12V DC
 - **Operating Current:** 15mA
 - **Operating Frequency:** 433.92M
 - **Operating Distance:** 20~30M
- **Warranty:** 1 year against manufacturing flaws

Product Usage Instructions

1. To extend the linear actuator, press the UP key on the Remote Control Transmitter (item #4).
2. To retract the linear actuator, press the DOWN key on the Remote Control Transmitter (item #4).
3. During any movement, press the other directional key to stop the actuator at its current location.

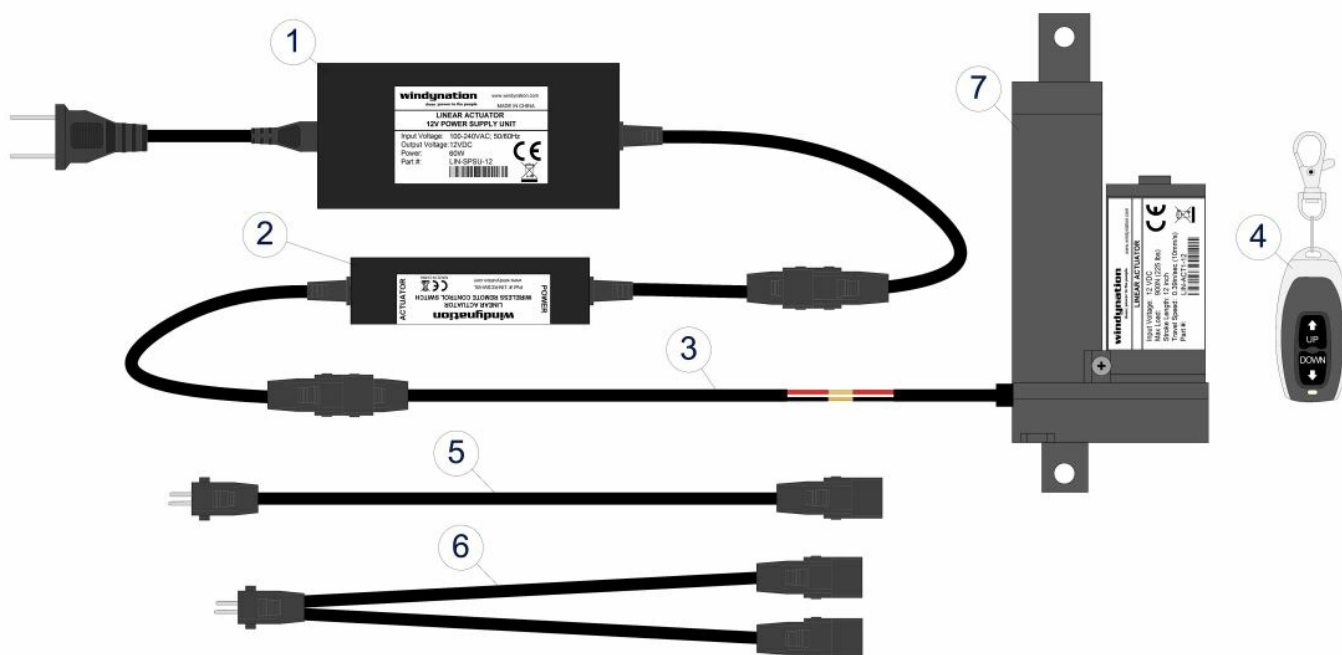
Pairing Instructions

- The wireless remote control unit (Part # LIN-RCSW-WL) comes pre-paired with a Wireless Remote Control Receiver and a Wireless Remote Control Transmitter at the factory.
- No additional pairing is required.
- **Note:** Do not hold down the pairing button during the pairing process, as it will revert the signal.

Troubleshooting:

- If the unit does not extend/retract, consider the following possible causes:
 - **Bad connection:** Inspect for broken or loose wires between each connection.
 - **Power supply issue:** Measure the voltage directly at the wired ends to ensure 12V is present.
 - **Insufficient current:** Use an amp meter to confirm that sufficient current is reaching the actuator.
 - **Remote control not paired:** Follow the pairing instructions above to pair the remote control with the receiver unit.

OVERVIEW



ITEM #	DESCRIPTION	PART #	NOTES
1	12V – 5A Power Supply Unit	LIN-SPSU-12	Includes item #3
2	Wireless Remote Control Receiver	LIN-RCSW-WL	Includes Item #3 & #4
3	Actuator Connection Cable	NA	Includes 2pc heat shrink
4	Wireless Remote Control Transmitter	LIN-RCSW-WL	Includes Item #2 & #4
5	Extension Cable (5M)	LIN-XCBL-15	Optional
6	Dual Actuator Adapter Cable	LIN-YCBL-01	Optional; Includes item #3
7	Linear Actuator (NOT INCLUDED)		

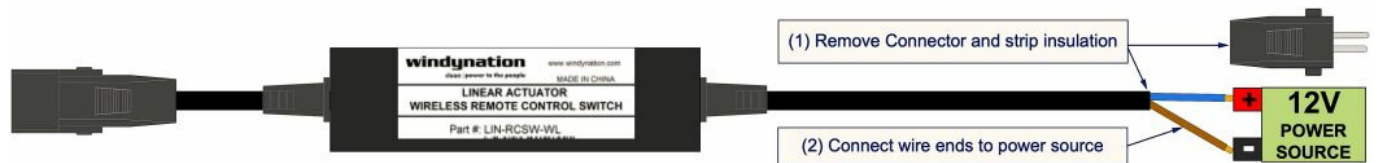
- The Windy Nation Linear Actuator wireless remote control is a complete set of application configurable components to be used to control and complement the Windy Nation DC linear actuator line.

- The controller is very easy to use and offers stable performance with low power consumption.
- Each receiving controller can work with multiple transmitters to offer remote push button operation for raising and lowering the actuator arm to precise limits.

INSTALLATION

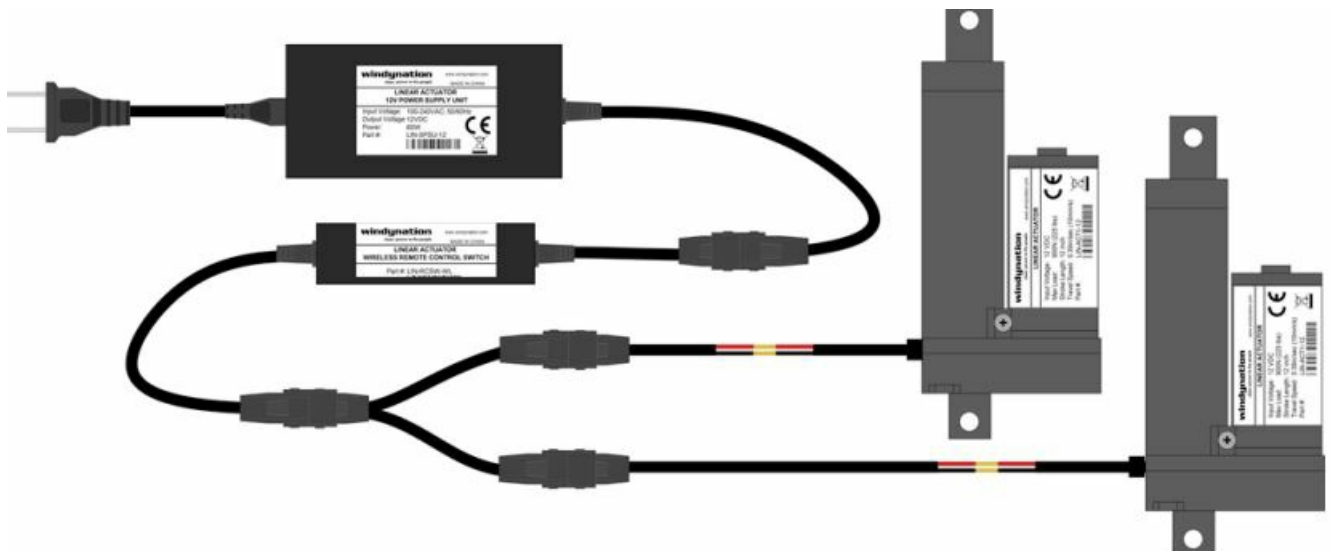
1. Mount the actuator (not included) per the recommended procedure from the manufacturer.
2. Slide the 3mm heat-shrink tubing (included) over the red and black wire of the actuator supply and connect the red wire to the red wire of the actuator connection cable (item #3) and the black wire to the black wire of the actuator connection cable.
3. Twist the two joined wired pairs together to secure them (soldering is recommended but not required), slide the heat shrink back over each joined wire pair, and heat the tubing with a hair dryer to shrink around wired connections.
4. Connect the actuator connection cable to the wireless remote receiver (item #2) and secure using a captive latching connector.
5. Connect the wireless remote receiver (item #2) to the power supply unit (item #1) and secure using a captive latching connector.

WARNING: If the power supply (LIN-SPSU-12) is not used, a 12V power supply rated at 5A is required and will need to be connected



Optional Equipment

- If additional cable is required either between the power supply unit and the control receiver or between the control receiver and the actuator, Windy Nation offers a 5M extension cable (PN LIN-XCBL-15) for purchase.
- In order to control two (2) Actuators using one control unit, Windy Nation offers a dual actuator adapter cable that includes an additional actuator connection cable. The dual adapter cable will be wired in between the control receiver (item #2) and the actuator extension cables, as shown below.



OPERATION

DESCRIPTION	SPECIFICATION
Operating Voltage	12V DC
Operating Current	15mA
Operating Frequency	433.92M
Operating Distance	20~30M

1. Press the “UP” key on the Remote Control Transmitter (item #4) to extend the linear actuator
2. Press the “DOWN” key on the Remote Control Transmitter (item #4) to retract the linear actuator.
3. During any movement, press the other directional key to stop the actuator at its current location.

Pairing Instructions

The wireless remote control unit (Part # LIN-RCSW-WL) includes a Wireless Remote Control Receiver and a Wireless Remote Control Transmitter that are paired together at the factory and do not need to be paired again. Pairing is only required when you are replacing the original Wireless Remote Control Transmitter or Receiver, or if you purchased additional Wireless Remote Control Transmitters and can be accomplished as follows:

1. Connect your 12 VDC power source to the Wireless Remote-Control Receiver.
2. Using a small pointed object (eg paperclip) press the red switch under the label on the Receiver
3. Within two seconds, press any button on the Wireless Remote Transmitter until a gentle tap is felt, indicating the switch was successfully paired

The ‘paired’ handset will now work with the controller.

IMPORTANT: Do not hold down the pairing button during the pairing process, as it will revert the signal

TROUBLESHOOTING


The unit will not extend/retract

POSSIBLE CAUSE	CORRECTIVE ACTION
Bad Connection	Inspect for broken or loose wires between each connection.
Power Supply is Bad	Measure the voltage from the power supply directly at the wired ends to ensure 12V is present.
Insufficient Current	Power may be reaching the motor, but with insufficient current to provide full load moving capacity. Use an amp meter to confirm that sufficient current is reaching the actuator.
The Remote Control is not paired	Follow the pairing instructions above to pair the remote control with the receiver unit.

WARRANTY

- Windy Nation warrants the item to be free of manufacturing flaws for a period of one (1) year.
- Windy Nation is not responsible for any injuries and/or damages caused as a result of not complying with the specifications stated.

Documents / Resources

	<p>Windynation LIN-SPSU-12 Linear Actuator Wireless Controller [pdf] User Manual LIN-SPSU-12 Linear Actuator Wireless Controller, LIN-SPSU-12, Linear Actuator Wireless Controller, Actuator Wireless Controller, Wireless Controller</p>
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