

2400 MHz 6-Function Remote Control Receiver (with On-Board 10-Amp Relays)

The RCR24SSA Series remote control receivers are designed to provide a quick and cost effective solution for a variety of wireless remote control relay applications. The receiver includes an external antenna, decoder and six 10-Amp on-board relays. The receiver utilizes spread spectrum technology and offers excellent electromagnetic interference (EMI) tolerance, often found in AC and DC motor applications. Units are designed to work with Applied Wireless **KTX24SSA** series 2400 MHz transmitters. These products will not interfere with or be affected by Wi-fi systems. This is a learning receiver, and can learn up to 60 different transmitters.



Features

- High EMI Tolerance
- Six 10-Amp SPDT On-Board Relays
- Long Range – 500 ft And More¹
- Integrated Code-Learning Decoder
- Can Learn up to 60 Transmitter IDs
- 4 Billion+ Unique Transmitter IDs
- Momentary, Latched, and/or Toggle Operation
- 12-24 Volt DC or AC Operation
- LED Output Activation Indicators
- Use Two or More for 12 Channel Remote Transmitter

Typical Applications

- Remote Control
- Industrial ON/OFF Applications
- Motor Control
- Solenoid Control
- Lighting Control
- Access Control
- PLC Activation

Ordering Information

Frequency (MHz)	Model Number	Matching Transmitters ²	Description
2400	RCR24SSA-6R	KTXW24SSA6-x	Handheld NEMA
		KTXW24SSA-12	12-Button Remote
		NTX24SSAy	NEMA Wall Mount

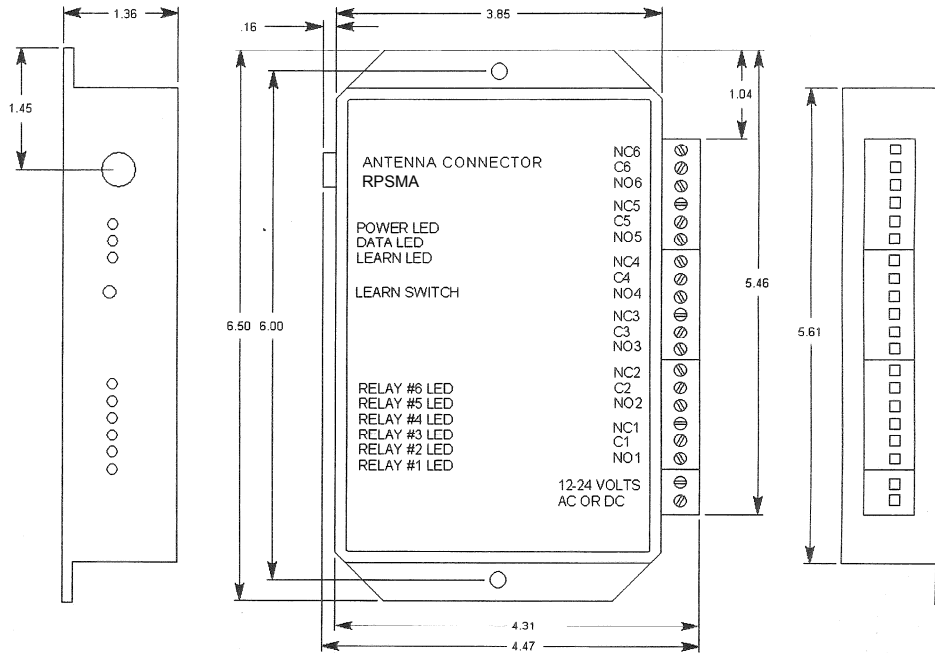
²x=Number of buttons: 1, 2, 4 or 6, y=1, 2 or more.

Electrical Characteristics

Sym	Parameter	Min	Typ	Max	Unit
V _{IN}	Operating Voltage Range	10	12	26	Volts AC or DC
I _{IDLE}	Operating Current, Unactivated		30		mA
I _L	Operating Current, Activated (all relays on)		220	270	mA
I _{max}	Relay Contact Ratings at 28 VDC/277VAC			10	Amps
f _c	Operating Frequency Range		2400-2483		MHz
Z _{out}	Antenna Input Impedance		50		Ohms
T _{op}	Operating Temperature	-20		+60	C
	Number of Address Codes			4.2	Billion

¹ Unobstructed line of sight range, when used with included 800253A-3 1/4-Wave antenna. Longer range can be achieved with higher gain antennas. See Antenna Options table.

Package Dimensions



ANTENNA OPTIONS

Model	Description	Gain (dBi)	Notes
800253A-3-RC	110mm Rubber Duck	3	Included
800253A-5-RC	190mm Rubber Duck	5	Optional

Learn Mode Instructions

The receiver will learn up to 60 transmitter IDs.

To learn a transmitter:

1. Power up the receiver.
2. Momentarily press the learn button; the light LEARN light will go on.
3. Press any button on the transmitter until the LEARN light goes out.
4. To learn another transmitter, repeat the process.

Codes cannot be deleted individually. The entire list of learned codes can be cleared by pressing and holding the LEARN switch for at least 10 seconds and then releasing it. The LEARN light will flash on and off for a few seconds to indicate the entire list of learned transmitters is empty.

Internal Settings

Internal switch and jumper settings instructions are found in the User's Guide.

They include the following:

Operation Mode Setting, (S1) : Channel-by-Channel settings for Momentary (default), Latched and Toggle modes.

Latched Mode Group Settings (S3): Vertical, Horizontal, Corner, Global and Master Reset.

Frequency Setting (S2): Not recommended for changing from Default setting unless needed. Used when multiple systems are used in the same area.

Channel Bank A/B Jumper Setting: Selects operation of receiver to respond to either buttons 1-6 (default) or 7-12.

Specifications subject to change without notice or obligation.