



Long Range Wireless Applications

SF900C-RX Receivers

900 MHz Remote Control Transceiver (with On-Board 10-Amp Relays)

The SF900C-RX Series Remote Control receivers are designed to provide a quick and cost effective solution for a variety of wireless switching applications. Each unit has multiple (4, 8 or 10) outputs.

The SF900C receiver operates as a multi-channel wireless relay using a SFT900C handheld or wall mount remote control. The default mode is Momentary but with optional custom software, Latched and Toggle modes are available for special applications. Mixed modes can also be programmed. When a button is pushed on the SFT900C, an RX LED and audible tone will indicate that the proper relay was triggered after receiving a verified acknowledgment reply from the SF900C. In this mode, multiple transmitters can be used with one receiver as well as one transmitter can transmit to multiple receivers.

These products utilize spread spectrum technology and are resistant to interference and multipath fading. All inputs and outputs are independently isolated from each other and from the power supply ground.



Features

- Works with SFT900 Series handheld and Wall Mount Transmitters
- Can work with Multiple SFT900C Transmitters
- 4-Inputs/4 each-10A Relay Outputs or
- 8-Inputs/8 each 10A Relay Outputs or
- 10 each 10A Relay Outputs
- Long Range: 1 to 2+ Miles
- Sends "Acknowledgement" Back to Transmitter Upon Receiving a Command
- Spread Spectrum Technology
- 12-24 Volt DC or AC Operation
- NEMA 4X Enclosure Option
- 120/240 VAC Power Input Option
- Antenna Included
- FCC Certified
- Made in USA

Typical Applications

- Pump Control
- Motor Control
- Solenoid Control
- Lighting Control
- Access Control
- PLC Activation
- HVAC Control
- Conveyor Control

Ordering Information

Model No.	Product Description	Channels	Range	Response Time
SF900C4-B-RX	Switch Follower Receiver	4	2.5-Miles	180ms
SF900C4-J-RX	Switch Follower Receiver	4	½-Mile	58ms
SF900C8-B-RX	Switch Follower Receiver	8	2.5-Miles	180ms
SF900C8-J-RX	Switch Follower Receiver	8	½-Mile	58ms
SF900C10-B-RX	Receiver Only	10	2.5-Miles	180 ms
SF900C10-J-RX	Receiver Only	10	½-Mile	58 ms
OPTIONS:	Product Description			
suffix -OPT14	NEMA 4X Enclosure 12-24 AC or DC Input			
Suffix -OPT14-PS	NEMA 4X Enclosure, 120/240VAC Input			

Specifications subject to change without notice or obligation.

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RELATED PRODUCTS

600279-8	RPSMA Antenna Bulkhead Extension Cable, 8.5"
600279-L200E-72*	RPSMA Antenna Bulkhead Extension Cable, 6 Ft
OPTION 14	NEMA ENCLOSURE WITH CABLE GLANDS IP66
OPTION PS	120/240 VAC INPUT POWER (only available with option 14)
610442-SAT	Wall Plug DC Supply, 120VAC Plug to 12VDC (strip and tin)
610300	Wall Plug Transformer, 120VAC Plug to 24VAC Terminals

* Many other antenna cable lengths available, from 8" to 50 Feet.

Electrical Characteristics

Sym	Parameter	Min	Typ	Max	Unit
	Operating Voltage Range	10	12	32	Volts
	Operating Current, Receive Mode		45	56	mA
	Operating Current, Transmit Mode		212	225	mA
	Output Relay Contact Ratings @120V			10	Amps
f	Frequency Range	902		928	MHz
Z _{out}	Antenna Input Impedance		50		Ohms
T _{op}	Operating Temperature	-20		+60	C

LEARN PROCEDURE

RECEIVER/TRANSMITTER APPLICATION: To pair a SF900C to be used as a receiver with a SFT900C handheld transmitter. More than 1 SFT900C handheld remote transmitter may also be learned to a single SF900C receiver:

1. The circuit board of the SFT900C will have to be accessed. Remove the 4 screws from the back cover and remove the cover.
2. Place both units in the learn mode by pushing the respective learn buttons, one for the SFT900C handheld, and one for the SF900C receiver. The learn lights will flash.
3. Then press the LEARN button on the SFT900C handheld transmitter again and the pairing will take place. Replace the cover and 4 screws, being careful not to pinch the gasket.

The SFT900C handheld remote will have learned the code and frequency of the SF900C receiver. Other transmitters can be added one at a time by repeating the learn process. All of the transmitters will have learned the receiver's address code and frequency.

More SF900C-RX receivers can be added to the above system one at a time. However, the covers will have to be removed from the additional SF900C-RX receivers and the ACK jumper will have to be moved to the NO ACK position to disable acknowledgements. When a signal is received from a transmitter, only one receiver, must reply with an acknowledgment to avoid collisions.



SFT900C LEARN Button Location 1



SF900C LEARN Button & LEARN Light

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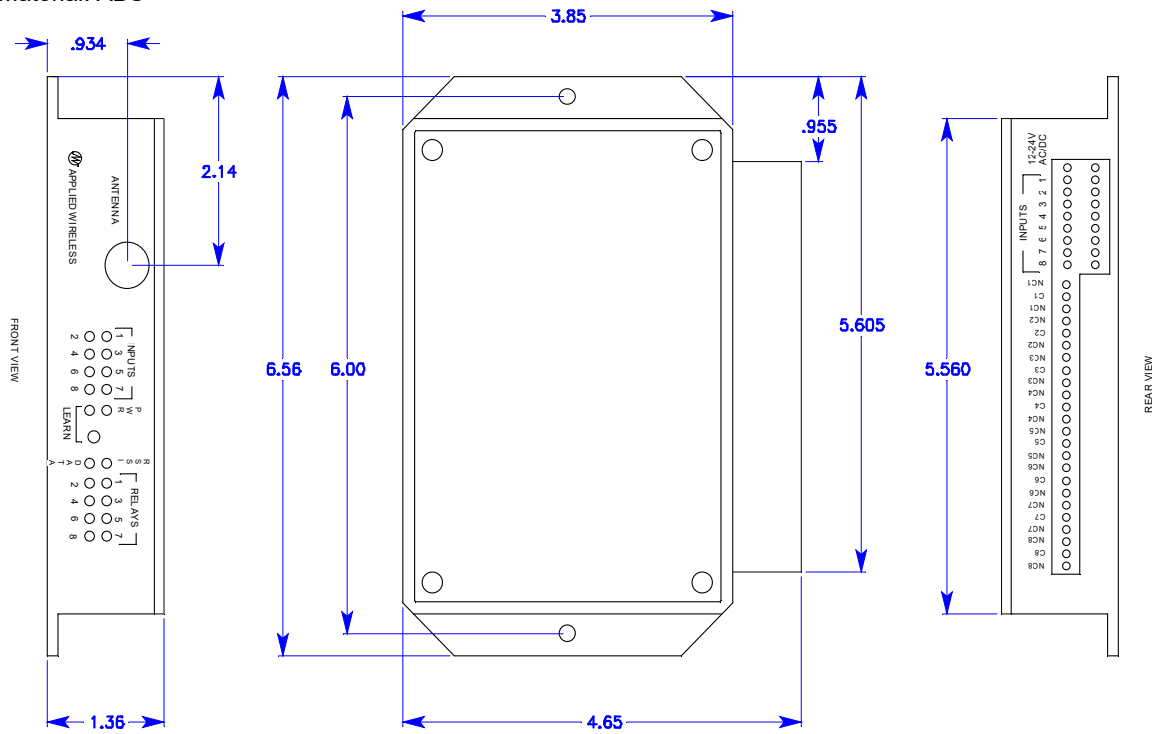
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SF900C-RX Receivers

Package Dimensions

Material: ABS



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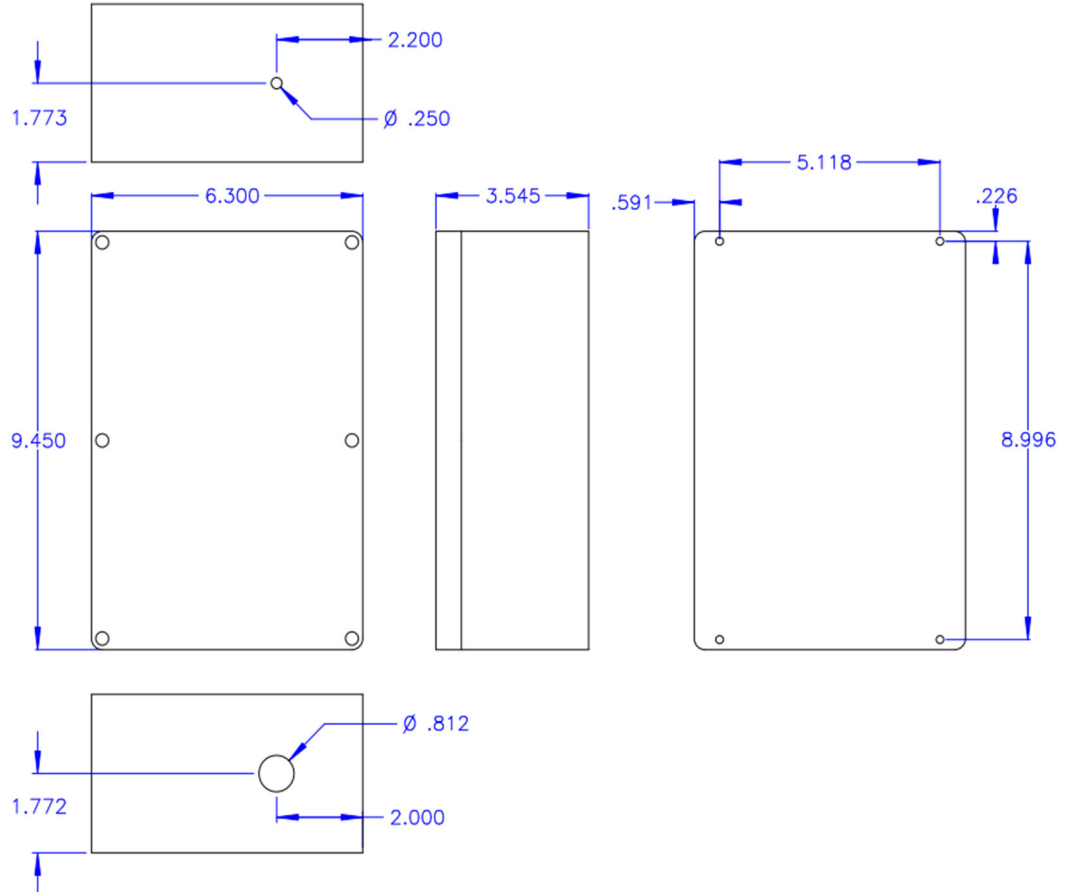
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SF900C-RX Receivers

Package Dimensions- Outdoor Enclosure -OPT14

Material: Polycarbonate

Rating: IP65



FCC ID: QY4-618

"This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation."

INSTRUCTION TO THE USER

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Applied Wireless could void the user's authority to operate the equipment.

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