



RF124/RF234/RF324

A10, 20A, 120, 208/240, 277 VAC Isolated Contact Relay Fixture Receiver
Standard and Extended Addressing

FEATURES

- X10 Standard Code (256 Addresses) and X10 compatible Extended Addressing capability (4096 addresses)
- Two way powerline communication, reports status upon "Status Request" for standard or extended addresses
- One 20 Amp Form A Relay with push button manual override and LED status indicator - remembers last state on power loss.
- Easy Push Button Configuring for Standard Unit Address ON/OFF and:
 - Response to "All Lights On" Command
 - Response to "All Units Off" Command
 - Response to "All Lights Off" Command
 - Enable or disable "Polite Mode"
- Factory or Field Configuring for Extended Unit Address ON/OFF and:
 - Response to "Status Request"
- Advanced A10 circuitry, X10 Signal Compatible
- Flying leads for field connection



APPLICATIONS

- Control High Current Loads
- Remote ON/OFF control of HVAC and Unitary Equipment
- Control Lighting Circuits
- To alternate loads
- Control Parking Lot Lights
- Switch any voltage up to 305 VAC

PRODUCT DESCRIPTION

The RF124, RF234 and RF324 units are A10 enhanced powerline carrier receivers controlling a single internal isolated contact form A relay. Relay holds last commanded state on power loss, and A10 circuitry remembers last relay state for correct status report upon power loss.

The RF series of receivers are programmable to any of the 256 X10 standard or Extended X10 addresses. The RF124, RF234 and RF324 may be remote controlled by addressing its base ad-

dress or its sub address, or through groups by the commands ALL LIGHTS ON, ALL LIGHTS OFF, or ALL UNITS OFF. These global commands must be configured.

The RF124, RF234 and RF324 will transmit the current relay status when requested.

The LED on the face is a guide in programming and also indicates status and power. Manufactured under Advanced Control Technologies, Inc.'s U.S. Patent No. 6,229,432.

ORDERING INFORMATION

- Specify: **RF124** - 120 VAC
RF234 - 208/240 VAC
RF234-DIN - 208/240 VAC - DIN rail mount, International wire colors
RF324 - 277 VAC

Note: If ordering factory configured extended address products, state quantities, addresses and configuration settings (surcharge applies).

SPECIFICATIONS

Electrical Requirements

Power

Supply Voltage	See voltages specified under "Ordering Information", +/-10%
Frequency	50 or 60 Hz
Power Consumption	Less than 4.5W

Signal

Signal Input	X10 Powerline Carrier, sensitive to 25 millivolts
Signal Output (Status)	RF124: X10 Powerline Carrier, 6V peak to peak @ 5 ohms RF234: X10 Powerline Carrier, 5V peak to peak @ 5 ohms RF324: X10 Powerline Carrier, 5V peak to peak @ 5 ohms

Controlled Output

Internal Form A Relay	Enclosed, flying lead connections
Maximum switching power	5540VA
Maximum switching voltage	305VAC
Maximum switch current	20 Amps

Internal Relay Life Cycles at Listed Loads

100,000 Operations
20A, 120 VAC or 277VAC General Use
10 FLA, 60LRA, 250VAC
1 H.P., 120/240VAC
TV8 (Tungsten), 120 VAC, 960W incandescent
Pilot Duty A300

Mechanical Requirements

Dimensions	2.88" L (73.1mm) x 1.81" W (46.1mm) x 1.6" D (39.3mm)
Weight	4.8 oz. (13.6 grams)
Mounting	Double sided foam tape for attachment in electrical junction box except for DIN rail mounting clips on RF234-DIN
Connections-	Flying Leads. LINE or L1 -18 AWG, LOAD (2) -12 AWG, NEUTRAL or L2 -18 AWG

Environmental Requirements

Operating Temperature	32 to 120 degrees F (0 to 48 degrees C)
Operating Humidity	5% to 95% non-condensing

Specifications may change without notice to improve product performance.

ABOUT CERTIFICATION

This product has been thoroughly tested by the ETL SEMKO division of Intertek, a nationally recognized testing laboratory. This product was found to be in compliance with safety standards ANSI/UL STD 244A and CAN/CSA C22.2 No. 177.

