



FEATURES

- Easy Push Button Programming to:
 - Set response to "All Lights On" Command
 - Set response to "All Units Off" Command
 - Set response to "All Lights Off" Command
 - Set response to Status Request
 - To select 1-16 hours to "Time Out" Relay (Special Order)
- X10 Signal Compatible
- On/Off/Auto Switch on Cover
- Terminals inside for connection of remote override switch
- One Form C Electrically Held Relay



APPLICATIONS

- Remote ON/OFF Control of Water Heaters
- Remote ON/OFF control of HVAC and Unitary Equipment
- Fail-safe Units "OFF" after power failure (use N.O. contacts)
- Fail-safe Units "ON" after power failure (use N.C. contacts)
- Control High Current Loads
- Alternate Loads
- Control Parking Lot Lights

PRODUCT DESCRIPTION

The RB204 Unit is an A10 enhanced 240 VAC, 50/60 Hz powerline carrier receiver controlling a single remote Form C Relay capable of switching a 30 amp load.

The RB204 will continuously monitor the powerline for PCC signals, and adjust its gain to filter out line noise. The RB204 will close or open its relay via Standard or Extended X10 command.

The RB204 may be remote controlled by addressing it by its base address 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 RB204 will transmit the current relay status when requested.

The RB204 has an external override input. Two wires connect to this input. When the wires make contact, the relay is turned on. When the wires break contact, the relay is turned off.

The RB204 also has a mode switch to allow the user to gain manual control of the relay. ON position turns the relay on, OFF position turns the relay off and AUTO position allows the software to control the relay.

The RB204 may also be configured to remember its relay state upon power up.

The RB204 may be configured with a "time-out" feature, where the state the relay reverts to ON or OFF after a specified period of time. Manufactured under Advanced Control Technologies, Inc.'s U.S. Patent No. 6,229,432.

ORDERING INFORMATION

Specify: RB204

SPECIFICATIONS

Electrical Requirements

Power

| | |
|-------------------|-----------------|
| Supply Voltage | 240 VAC, +/-10% |
| Frequency | 50/60 Hz |
| Power Consumption | Less than 4.5W |

Signal

Signal Input X10 Powerline Carrier, sensitive to 50 millivolts
Signal Output (Status Feedback) X10 Powerline Carrier, 6V peak to peak @ 5 ohms

Controlled Output

Form C Relay Normally open, normally closed and common connections
Resistive 30A, 277 VAC - N.C. or N.O. contacts
Motor 1 H.P., 120 VAC; 1.5 H.P., 200-600 VAC - N.C. or N.O. contacts
Ballast 120 VAC, 10A - N.C. contact or 30A - N.O. contact
Ballast 277 VAC, 10A - N.C. contact or 20A - N.O. contact
Tungsten 2A, 120 VAC - N.C. contact or 10A, 120 VAC - N.O. contact
Resistive DC 30A, 28 VDC - N.C. or N. O. contacts
Fuse One (1) 5 x 20mm time lag fuse rated 0.5A, 250V (control circuit) user replaceable (Littlefuse 239,500 or Buss GDC-500mA).

Mechanical Requirements

Power

Two (2) 12" 16 AWG Flying Leads L1 - Black
L2 - Red

Relay

Three (3) 12" 10 AWG Flying Leads N.C. - Blue
N.O. - Gray
COM - Violet

Remote Manual Override

Connections Removable Terminal Block with Screw Clamp Connections
Tightening Torque 16 inch-pounds
Wire Size 8 to 18 AWG
Wire Strip Length 5/16"

Enclosure

Dimensions 4.8" L x 4.6" W x 1.25" H
Weight Less than 16 ounces
Mounting Hinges/mounts on 4-11/16" x 4-11/16" electrical junction box

Environmental Requirements

Operating Temperature 32 to 120 degrees F
Storage Temperature -20 to 150 degrees F
Operating Humidity 5% to 95% non-condensing

Specifications may change without notice to improve product performance.