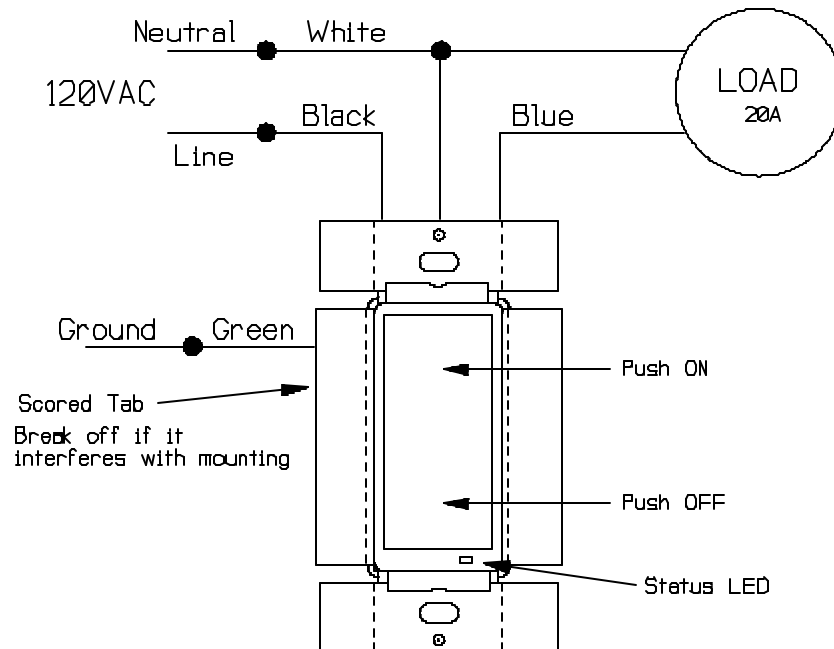




# RS114

A10 120 VAC, 20A, Wall Switch Receiver,  
Standard and Extended Addressing



## BEFORE YOU BEGIN...

### READ ALL INSTRUCTIONS

Make sure your installation will conform to all applicable codes and requirements.

### TEST FOR SIGNAL STRENGTH AND NOISE...

using appropriate test equipment. It is necessary to test the installation in the actual operating environment. The amount and types of line loads may reduce the strength of the transmitted signal and/or electrical noise may cause interference with the transmitted signal. Proper installation may require additional couplers, filters or repeaters. Special coupling devices are required to allow signal to be distributed to all phases and zero-crossings in multi-phase and multi-transformer distributions.

### IF YOU HAVE ANY QUESTIONS...

Consult your nearest Engineered System Center (ESC) for additional information.

There are no field repairable assemblies on this unit. It is covered by a two year limited warranty. If service is needed, the unit must be returned to the ESC where purchased. Contact your ESC for return details.

## INSTALLATION

**CAUTION!** Make all connections with the **POWER OFF** to avoid injury to the installer or damage to the device. **WARNING: SHOCK HAZARD.**

1. Strip 3/4" of insulation from the ends of the conductors and make connections as shown in the Wiring Diagram. Connect line and neutral to the BLACK and WHITE flying leads. The power is fed through the relay contacts from the BLACK (Line) wire to the BLUE (Load) wire. Connect the load between the BLUE and WHITE wires.
2. Check connections to be sure they are tight and no bare conductors are exposed.
3. Make sure the load or installation does not exceed the device rating.
4. Install into an appropriately sized electrical wall box. Scored tabs on both sides can be bent up and down their length with pliers, then removed, to allow fit in a variety of electrical box types.
5. Restore the power.

The RS114 features two operating modes: Normal Mode and Configuration Mode.

The Normal Mode is the state in which the device performs its primary function. The Configuration Mode allows the user to specify the base address by which the device may be controlled, and allows the user to enable “All Lights On, All Units Off, All Lights Off commands” (disabled when address is set) or disable “polite mode” and enable “rude mode”, and reverse the action of the LED.

## OPERATION

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### **If the RS114 address is configured to a standard code address:**

The RS114 will respond to standard code On, Off, and Status Request commands.

The RS114 will respond with standard code Status On or Status Off commands when it receives the standard code Status Request command.

The RS114 will respond when ON (top of rocker switch) is pressed. It will transmit the Standard Code Status On command two seconds later.

The RS114 will respond when OFF (bottom of rocker switch) is pressed. It will transmit the Standard Code Status Off command two seconds later.

### **If the RS114 has been configured to a extended code address or configured in the field (see attached "Extended Code" Addendum for extended code instructions):**

The RS114 will respond to standard code On and Off commands addressed to the Letter code and Unit code of its extended code address. It will also respond to extended code On, Off, and Status Request commands.

The RS114 will respond with extended code Status On or Status Off commands when it receives the extended code Status Request command.

The RS114 will respond when ON (top of rocker switch) is pressed. It will transmit the Extended Code Status On command two seconds later.

The RS114 will respond when OFF (bottom of rocker switch) is pressed. It will transmit the Extended Code Status Off command two seconds later.

## CONFIGURING

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### **To set the address:**

Press and hold both top and bottom of rocker switch for 3 seconds. After 3 seconds, the status LED will either turn on, or if it is already on, blink off fast and then turn back on. The RS114 can now be addressed.

Using a transmitter, transmit the desired address twice in succession. The transmissions must be separated by at least six zero crossings (50mS to 60mS, dependent on line frequency). The RS114 will blink twice to indicate acceptance of desired address. All additional features default to their default values.

### **To disable “polite mode” and enable “rude mode”:**

Transmit the configured address twice more in succession (separated by at least six zero crossings). The Status LED will blink 4 times.

### **To enable “All Lights On, All Units Off, All Lights Off commands”:**

To enable each command, transmit the command twice in succession (separated by at least six zero crossings). The Status LED will blink 6 times when All Lights On is enabled, 10 times when All Units Off is enabled, and 8 times when All Lights Off is enabled.

### **To have the Status LED operate in reverse mode:**

To have the Status LED work like a night light and be on when the light or load is off, transmit the Standard Code Status On command twice in succession (separated by at least six zero crossings). The Status LED will blink once.

### **To exit configuration mode:**

Press both buttons again. The Status LED will turn off or blink off and then turn back on. The RS114 will exit configuration mode and re-enter run mode after one minute of no activity.

## CHECKOUT

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1. Test Remote Operation:  
Using the transmitter, transmit the address and any configured commands to ensure the module controls the load in response to remote control.
2. Test for Signal Strength and Noise once again using appropriate PCC test equipment.

Supply Voltage	120 VAC, +10/-23%, 50 or 60 Hz	Signal Output (Status)	6V peak to peak @ 5 ohms
Signal Input	120 KHz +/- 4 KHz, sensitive to 25 millivolts	Maximum switching capacity	20 Amps or 2400 VA
		Maximum switching voltage	132 VAC