Wirelynx *Powerline Carrier Systems*

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Model LX-1022CA 1 or 2-Channel Receiver - 120 to 240VAC with Two 3-Amp Low Power Relay Outputs

The LX-1022CA is designed to operate on voltages from 120 to 240VAC and can be configured in the 1-channel DPDT mode or the 2-channel 2 SPDT mode.

1. Mount the Wirelynx Model LX-1022CA Powerline Carrier Receiver to an electrical enclosure using the 1/2" chase nipple with the locknut supplied. A 1/2" knockout in the electrical enclosure will allow for direct mounting. Alternately, order the Wirelynx receiver mounting bracket part # 01021-01001A.

2. For 120, 208 or 240 VAC single-phase configurations, connect the BLACK #18AWG lead to the 120, 208 or 240V phase ("hot leg"). Connect the RED and WHITE #18AWG leads to neutral. If neutral is not available, connect to ground. (**Note:** Ground and neutral must be connected together at the breaker panel.) See Figure 1.

3. For 120/208 VAC or 120/240V (split) single-phase systems, connect the BLACK #18AWG lead to one phase. Connect the RED #18AWG lead to the opposite phase. Connect the WHITE #18AWG lead to neutral. If the neutral is not available, connect the WHITE #18AWG lead to ground. (**Note:** Ground and neutral must be connected together at the breaker panel.)

4. For 120/208 VAC WYE three-phase systems, connect the BLACK and RED wires to any two of the three phases. Connect the WHITE wire to neutral (or ground if neutral is not available).

5. For 120/240 VAC DELTA three-phase systems, connect the BLACK and RED wires to the 120V legs (phases). Do not connect to the 208V "high" leg. Connect the WHITE wire to neutral (or ground if neutral is not available).

6. The LX-1022CA has two single-pole double-throw (1FormC) dry contacts. Connect the first controlled load through the #18AWG BROWN (Common) lead and either the YELLOW(Normally-Open) or the BLUE (Normally Closed) leads of the 3-Amp relay. Connect the second controlled load through the #18AWG VIOLET (Common) lead and either the ORANGE(Normally-Open) or the GRAY(Normally Closed) leads of the 3-Amp relay. The relay contacts have a maximum voltage rating of 250VAC or 28VDC.

7. Before powering the LX-1022CA receiver up, remove the cover and set all of the DIP switches: the # of channels - 1 or 2; the house code - A or B; load number (channel) code, and other appropriate settings. The eight-position dip switch is located on the upper side of the board as indicated in Figure 2. The number of channels determines the operational mode of the relays. In 1-channel mode, both relays operate together or with relay #2 on a timed 1 minute delayed on de-energize. In 2-channel mode, relays operate independently. Set Dip Switch #8 first to define the receiver as a one-channel or two-channel device. Next set the address using the proper table for Dip Switches 1 thru 4 for 1-channel, or 1 thru 3 for 2-channel. Set house code to the same house code as transmitter on Dip Switch #5. Set minimum off-time enable for inductive loads on Dip Switches# 6 and 7. In single channel mode, Dip Switch #7 becomes the enable or disable for the 1-minute Open time delay on relay #2.

8. Turn on power to receiver. The Green LED on the receiver should blink approximately once per second indicating that the receiver is receiving a signal from the transmitter. (Transmitter must be turned on.)

9. When the transmitter sends an "energize" command, the Red LEDs will be lit, indicating that the relay's coil is energized, the normally-open contact is closed and the normally-closed contact is open.

10. Replace cover and tighten screws.

CAUTION - 120VAC TO 240VAC IS PRESENT ON RECEIVER PC BOARD

Revision 11/23/10

Figure 1

MODEL LX-1022CA WIRING DIAGRAM

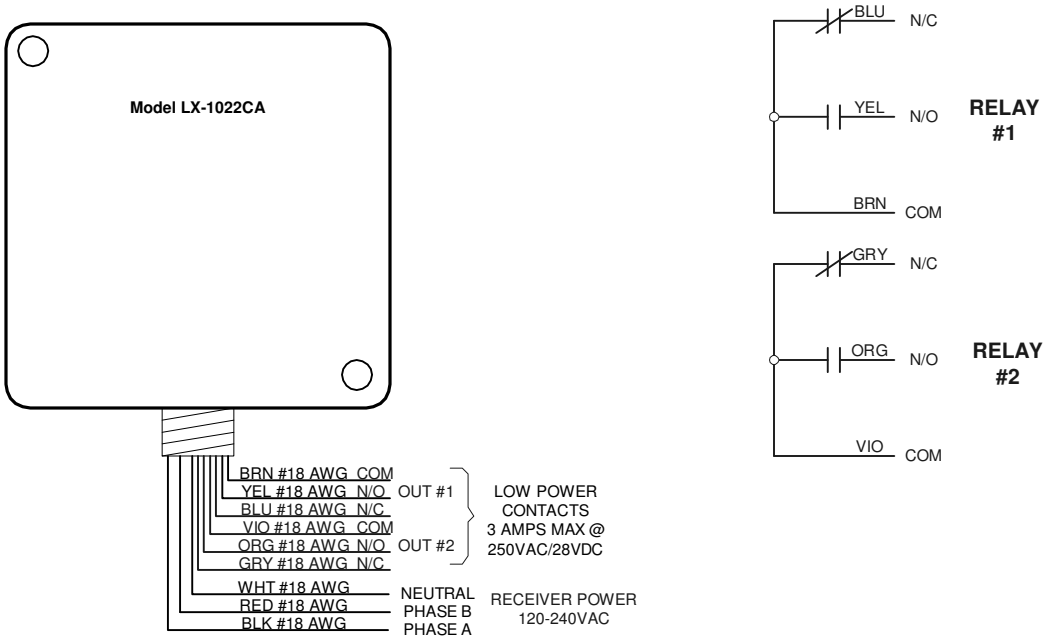

Figure 2

DIP SWITCH SETTINGS FOR LX-1022CA PLC RECEIVER