Wirelynx *Powerline Carrier Systems*

Brayden Automation Corp.
6230 Aviation Circle
Loveland, CO 80538
(970)461-9600
www.wirelynx.com

Model LX-1031CA Receiver - 120 to 240VAC Line Voltage 30 Amp High Power Relay Output

1. Mount the Wirelynx Model LX-1031CA 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 208 or 240 VAC single phase configurations, connect the BLACK #18AWG lead to the 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 single (split) 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-1031CA has one single-pole double-throw (FormC) contact. Connect the load to be controlled through the two #10AWG RED leads. The receiver's default contact configuration is the Normally-Closed contact. If you need the Normally-Open contact, move the #10AWG RED wire from the NC to the NO terminal on the receiver's relay. The Normally-Closed relay contact has a maximum voltage rating of 30 Amps at 240VAC-Resistive, 20 Amps at 277VAC-General Purpose or 30Amps at 30VDC. See Figure 2.

7. Before powering the LX-1031CA receiver up, remove the cover and set the house code, load number (channel) code and other appropriate settings on the six-position dip switch located in the upper left-hand corner of the board as indicated in Figure 2.

8. Turn on power to receiver.

9. The Green LED on the receiver should blink approximately once per second indicating that the receiver is receiving a carrier signal and packets of information from the transmitter. (Transmitter must be turned on.)

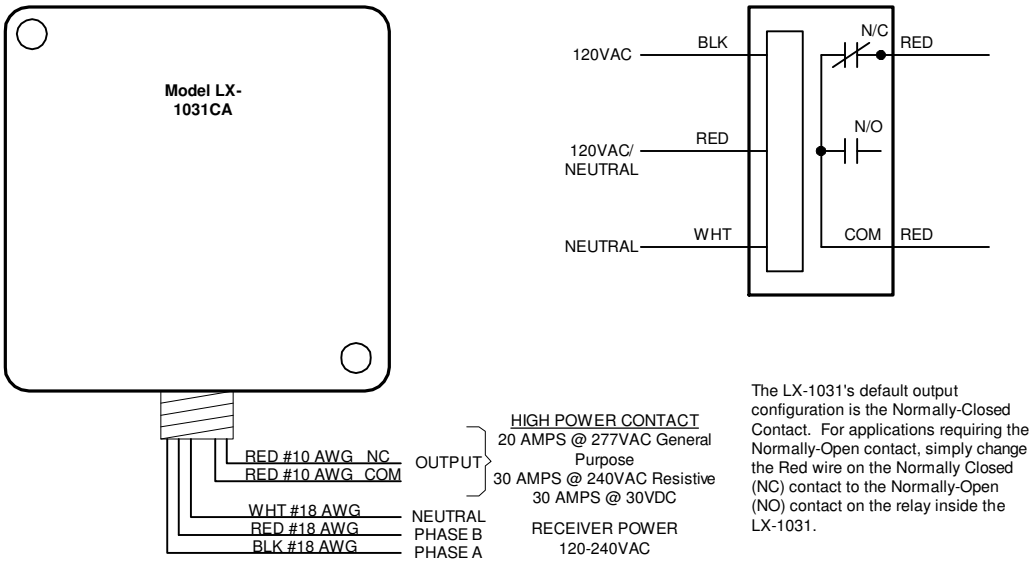
10. When the transmitter sends an ***"energize"*** command, the Red LED will be lit, indicating that the relay's coil is energized and the normally-open contact is closed and the normally-closed contact is open.

11. Replace cover and tighten screws.

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

Revision 11/23/10

Figure 1
MODEL LX-1031CA WIRING DIAGRAM



The LX-1031's default output configuration is the Normally-Closed Contact. For applications requiring the Normally-Open contact, simply change the Red wire on the Normally Closed (NC) contact to the Normally-Open (NO) contact on the relay inside the LX-1031.

Figure 3
DIP SWITCH SETTINGS FOR LX-1031CA PLC RECEIVERS