Wirelynx *Powerline Carrier Systems*

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

Model LX-422H 1 or 2-Channel Receiver - 480VAC with Two 3-Amp Low Power Relay Outputs

The LX-422H is designed to operate on a line voltage of 480VAC on systems where no neutral exists at the location of the receiver. It can be configured in the 1-channel DPDT mode or the 2-channel 2 SPDT mode.

1. Mount the Wirelynx Model LX-422H Powerline Carrier Receiver using the enclosure's four mounting feet. Connect the LX-422H to an electrical enclosure using the 1/2" chase nipple with the locknut supplied or other appropriate electrical hardware required for the application. No connections should be made inside the LX-422H.

2. For 480VAC phase-to-phase configurations, connect the BLACK #18AWG lead to the first phase ("hot leg"). Connect the RED #18AWG leads to the second phase ("hot leg"). DO NOT connect to ground or NEUTRAL. See Figure 1. The two hot legs that are used must be the same two on which the PLC signal is injected from the output side of the LX-2299A 480V Interface Adapter.

3. The LX-422H has two single-pole double-throw (1FormC) "dry" relay 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.

4. 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.

5. Before powering the LX-422H receiver up, remove the cover and set the jumpers for each relay's desired channel. The two 4-position jumper headers are located on the upper side of the board as indicated in Figure 2. In 1-channel mode, set the jumpers for the same output so that both relays operate together. In 2-channel mode, the relays operate independently. Set each output relay's jumper to the desired channel.

6. Set the fail-safe jumper for the desired mode in the event that the transmitter signal is lost. The jumper is OUT for normally-closed, or IN for normally-open.

7. Put cover in place and hold in place with 2 of the 4 screws supplied.

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 signal from the transmitter. (Transmitter must be turned on.)

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

13. Replace cover and insert remaining screws. Tighten all screws.

CAUTION - 480VAC IS PRESENT ON RECEIVER PC BOARD

Figure 1

MODEL LX-422H WIRING DIAGRAM

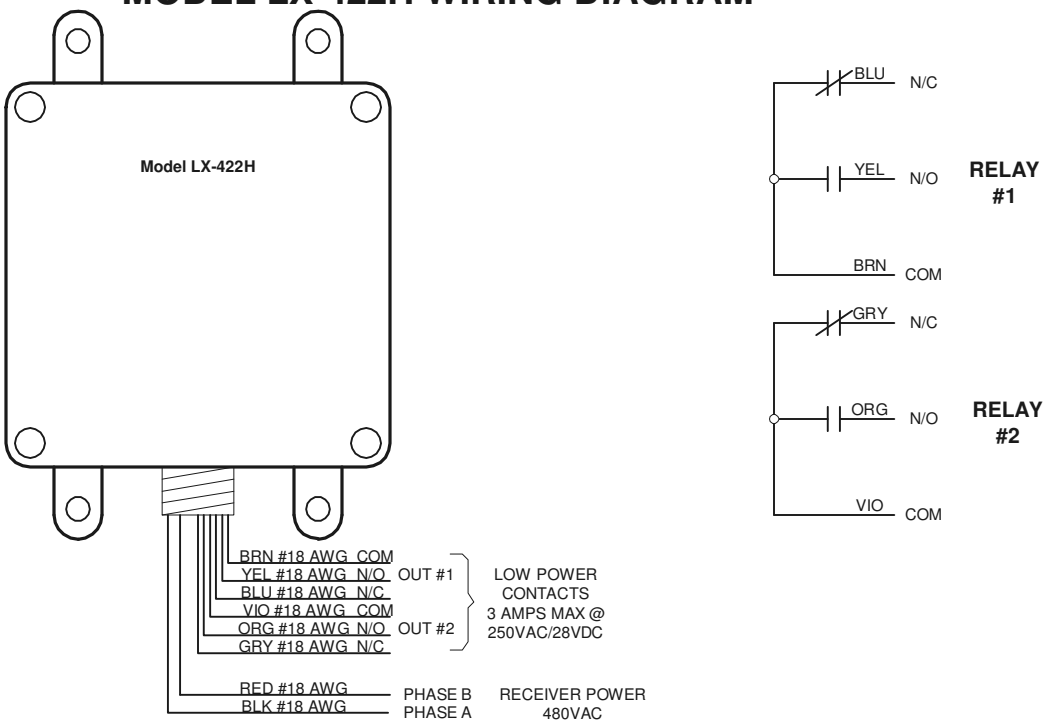
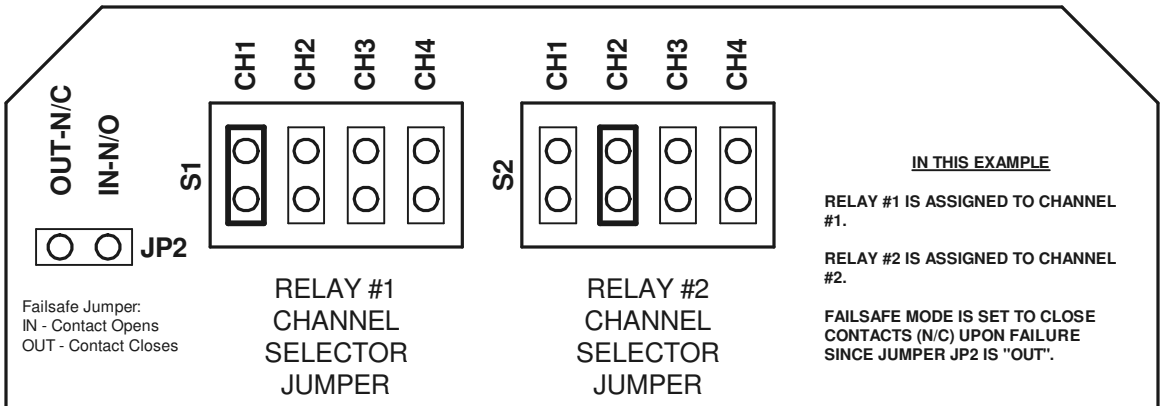


Figure 2

JUMPER SETTINGS FOR LX-422H PLC RECEIVER



IN THIS EXAMPLE

RELAY #1 IS ASSIGNED TO CHANNEL #1.

RELAY #2 IS ASSIGNED TO CHANNEL #2.

FAILSAFE MODE IS SET TO CLOSE CONTACTS (N/C) UPON FAILURE SINCE JUMPER JP2 IS "OUT".

NOTES:

1.) SET THE JUMPER SHUNT FOR RELAY #1 ON THE DESIRED CHANNEL NUMBER. THIS NUMBER WILL MATCH THE INPUT NUMBER ON THE TRANSMITTER. SET THE JUMPER SHUNT FOR RELAY #2 FOR THE DESIRED CHANNEL NUMBER. iF RELAY #2'S CHANNEL NUMBER IS THE SAME AS RELAY #1'S, BOTH RELAYS WILL WORK SIMULTANEOUSLY, CREATING A DPDT RELAY. IF JUMPER SHUNTS ARE ON DIFFERENT CHANNEL NUMBERS, THEN THE TWO RELAYS WILL OPERATE INDEPENDENTLY AND RESPOND TO THEIR ASSIGNED CHANNEL INPUT.

2.) SET JUMPER SHUNT ON JP2 FOR THE DESIRED FAILSAFE MODE. THIS IS THE STATE THE RELAY WILL DEFAULT TO IF THE SIGNAL FROM THE TRANSMITTER IS LOST. IF POWER IS LOST TO THE RECEIVER, THEN THE RELAYS WILL DEFAULT TO THE NORMALLY-CLOSED CONTACT.