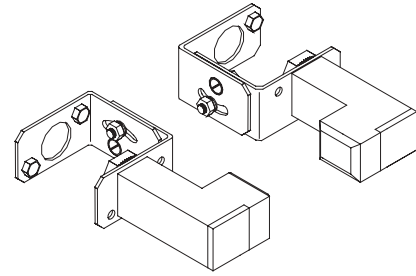


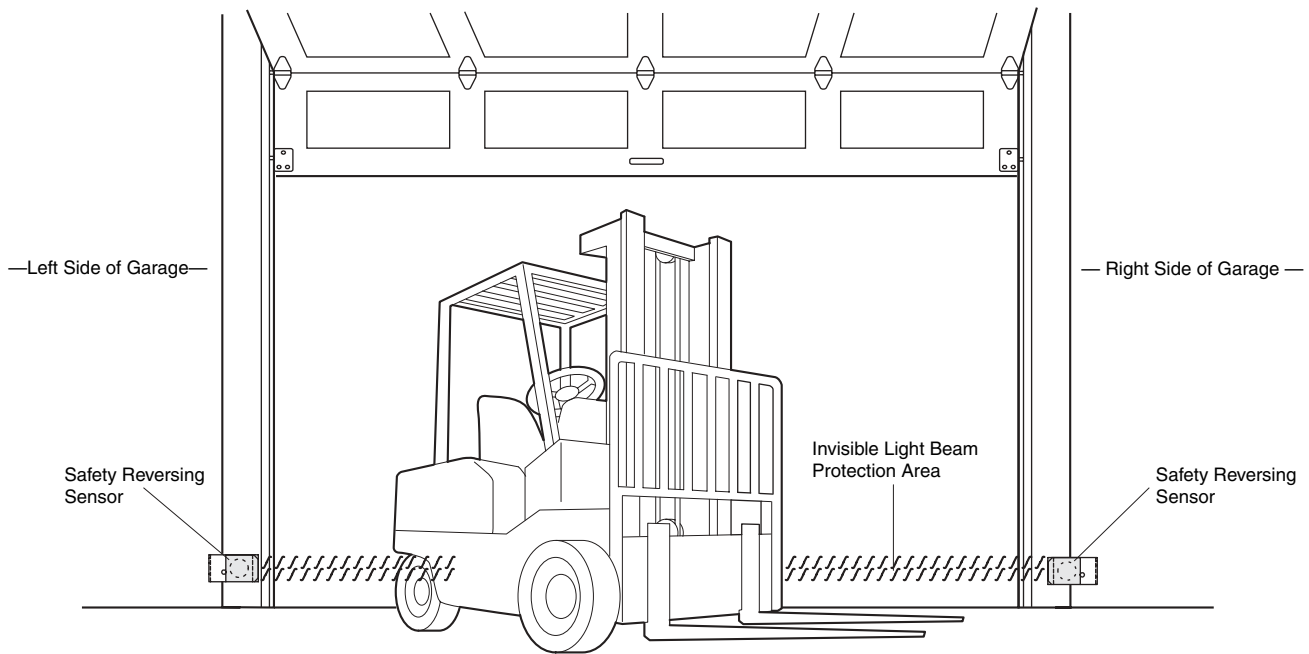
⚠ WARNING

This device is for use ONLY with LiftMaster Commercial Door Operators. Use on other than recommended equipment voids warranty, and may cause PROPERTY DAMAGE or SERIOUS PERSONAL INJURY. Read and follow all instructions.

Have door in full open or closed position and disconnect power to the garage door opener BEFORE installing the CDO Commercial Protector System®.



Installation procedures are the same for all door types.



Facing the door from inside the garage

Install the Commercial Protector System®

IMPORTANT INFORMATION ABOUT THE SAFETY REVERSING SENSOR

Be sure power to the opener is disconnected.

When properly connected and aligned, the sensor will detect an obstacle in the path of its electronic beam. The sending eye (emitter with an amber indicator light) transmits an invisible light beam to the receiving eye (receiver with a green indicator light). If an obstruction breaks the light beam while the door is closing, the door will stop and reverse to full open position.

The units must be installed inside the garage so that the sending (emitting) and receiving eyes face each other across the door, no more than 6" (15 cm) above the floor. Either can be installed on the left or right of the door as long as the sun never shines directly into the receiving eye lens.

The brackets must be securely fastened to a solid surface such as the wall framing. If installing in masonry construction, add a piece of wood at each location to avoid drilling extra holes in masonry if repositioning is necessary.

The invisible light beam path must be unobstructed. No part of the garage door (or door tracks, springs, hinges, rollers or other hardware) may interrupt the beam while the door is closing. If it does, use a piece of wood to build out each sensor mounting location to the minimum depth required for light beam clearance.

INSTALLING THE BRACKETS

IMPORTANT: Mount sensors 4"-6" (10-15 cm) above the floor. Do not exceed 6" (15 cm). For sensing above 6" (15 cm), a second set of eyes would be required.

Floor or Wall Mount

For typical floor or wall mounting applications see Figure 1. If necessary, see Figure 2 for various assembly options to fit your application. Always use flat washer next to slot with radius **NOTE: Putting track bolts in slots will prevent brackets from pivoting.** Attach assembly to wall with lag screws provided. To attach to concrete use concrete anchors (not provided).

Track Mount

To mount to door track use only one bracket per side (Figure 3).

Figure 1 Wall or Floor Mounting

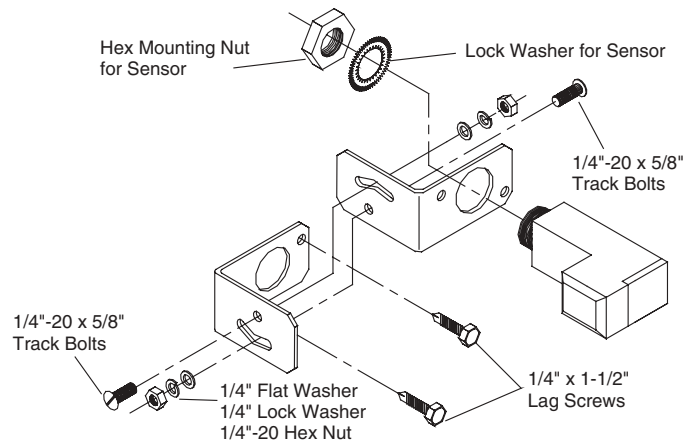
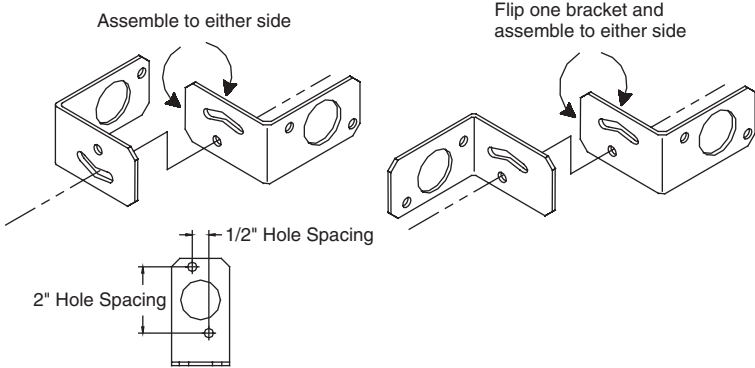


Figure 2 Assembly Variations



To attach vertically to 2" x 4" wall stud and prevent wood from splitting, bracket may also be rotated with leg on top. Shown with leg on bottom.

CONDUIT CONNECTIONS

Use a liquid tight fitting (1/2" trade size) with sealing washer to connect to sensors. The sensors are provided with 36" long leads. We recommend the use of a liquid tight junction box near each sensor to make the connection to the sensor leads. (Figure 4). Use rigid or flexible liquid tight conduit (depending on local codes) from junction boxes to operator.

IMPORTANT: Use a minimum size 20 ga. copper wire for connection between the sensors and the operator.

WIRING CONNECTIONS

CPS-N4: See top of page 3

CPSII-N4: See middle of page 3

CPS-LN4: See page 4 and 5

Figure 3 Door Track Mounting

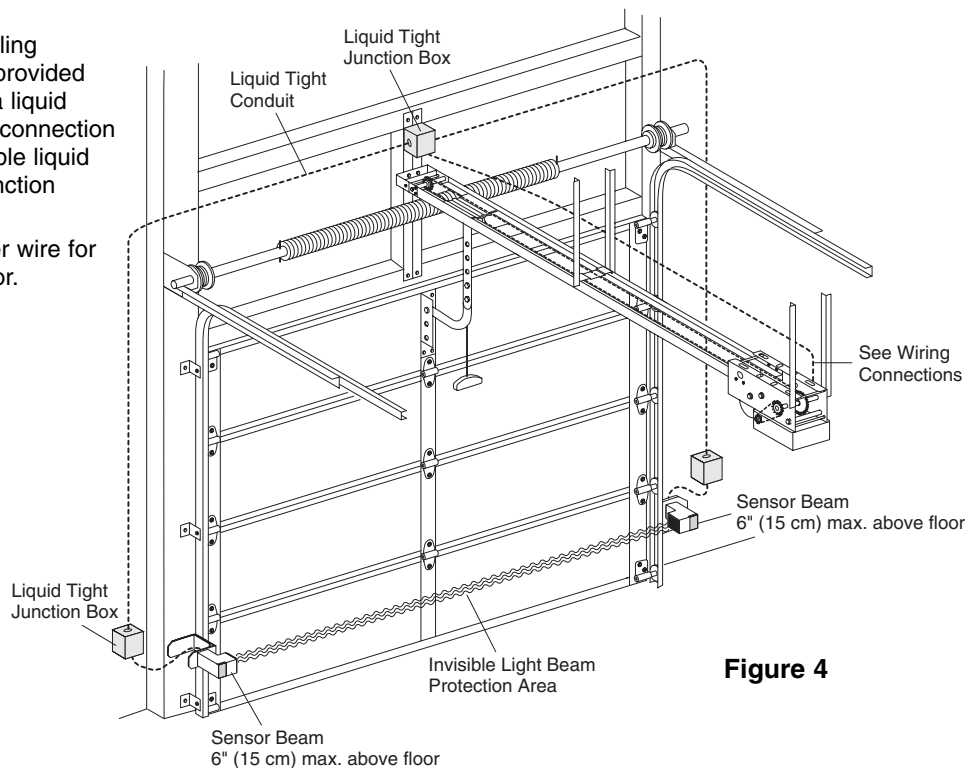
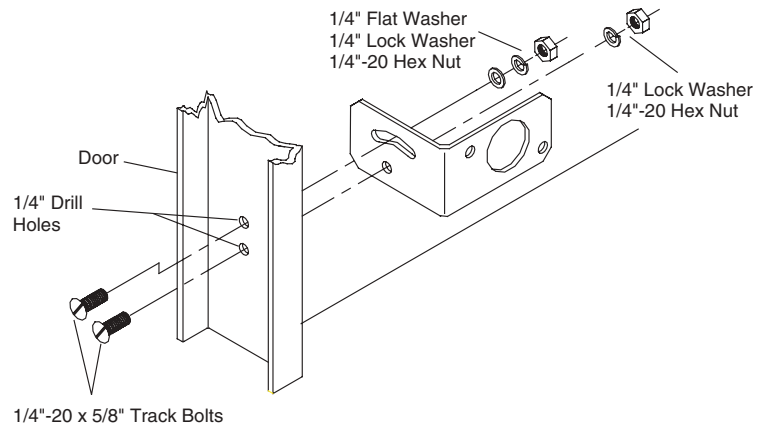
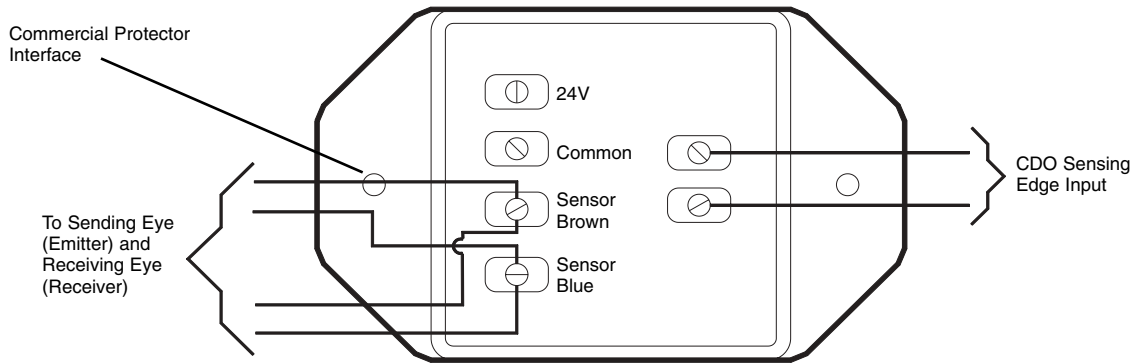
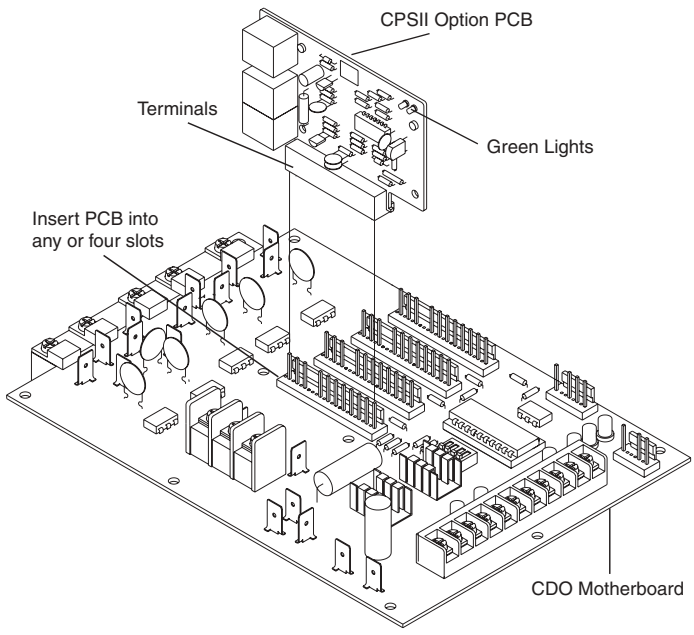


Figure 4

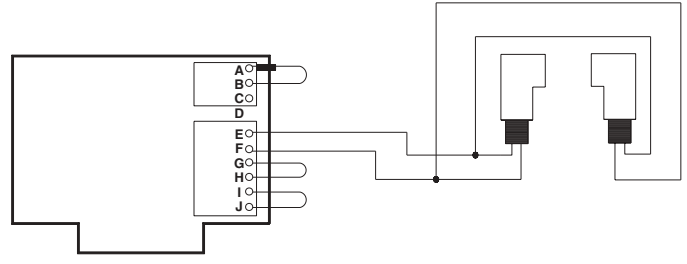
CPS-N4 Wiring Connections



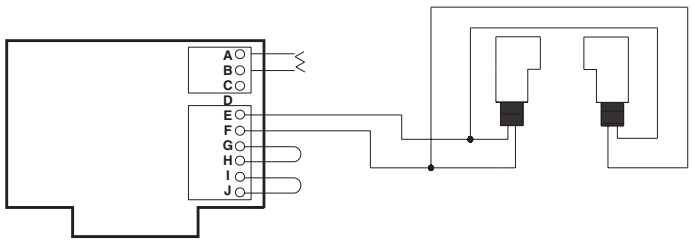
CPSII-N4 Wiring Connections for use with Solid State Logic Control Board



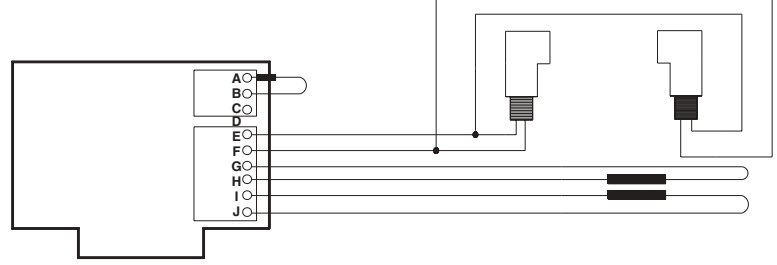
IR Protector Only



IR Protector and 2-Wire Fail Safe Door Edge

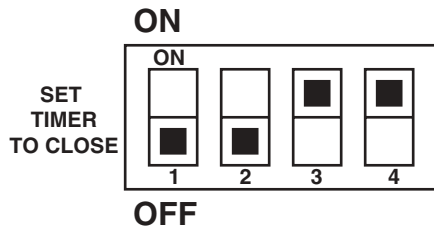
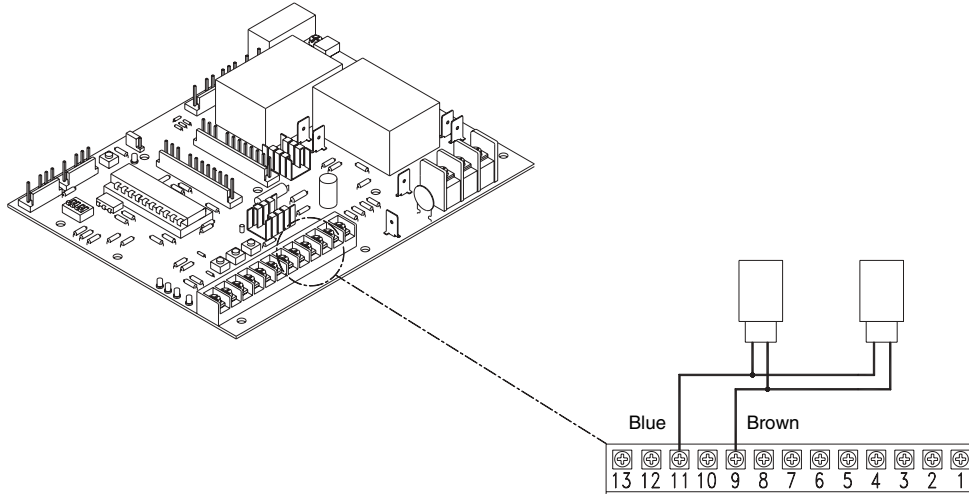


IR Protector and 4-Wire Fail Safe Door Edge



NOTE: Logic 2 Board will have the same connection.

CPS-LN4 Wiring Connections for use with Solid State II (Logic Control Board Ver 2)



TO ACTIVATE SAFETY SENSOR EYES

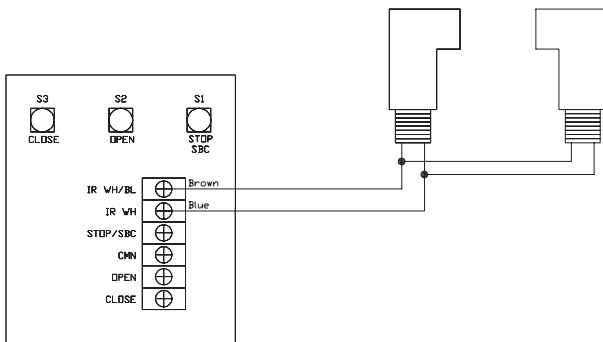
1. Start with door in the "CLOSED" position.
2. Connect the CPS-LN4 eyes as shown in figure to the left. Confirm that the LEDs on both eyes are lit.
3. Set DIP switches to desired operating mode. (Refer to owner's manual for switch settings.)
4. Run the door through one full close-open-close cycle to "Learn" the sensor eyes.

NOTE: Test the Safety Sensor Eyes operation by interrupting the eyes while closing the door.

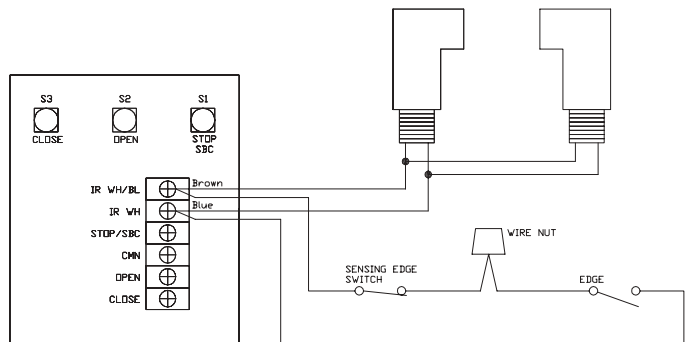
5. Once the sensor eyes are "Learned" and it becomes necessary to remove the sensors, the sensors will need to be "unlearned" by setting DIP switch to "Timer to Close" mode and pressing the Close Button.

CPS-LN4 Wiring Connections for use with LGO Operator

IR PROTECTOR ONLY

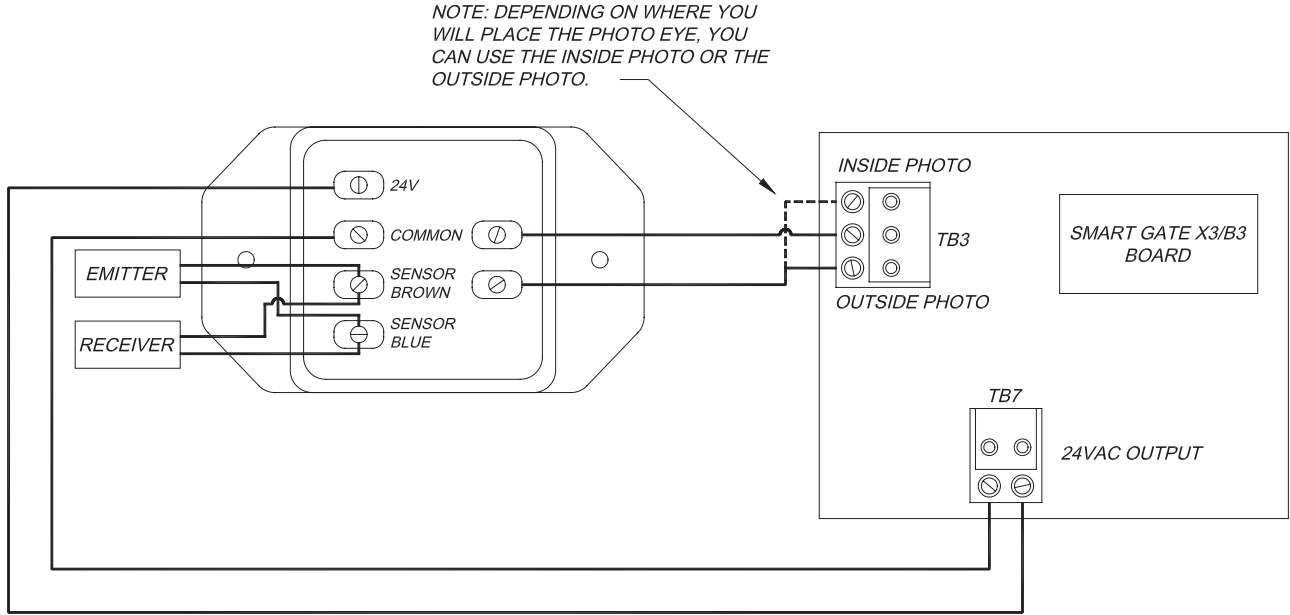


IR PROTECTOR AND SAFETY EDGE

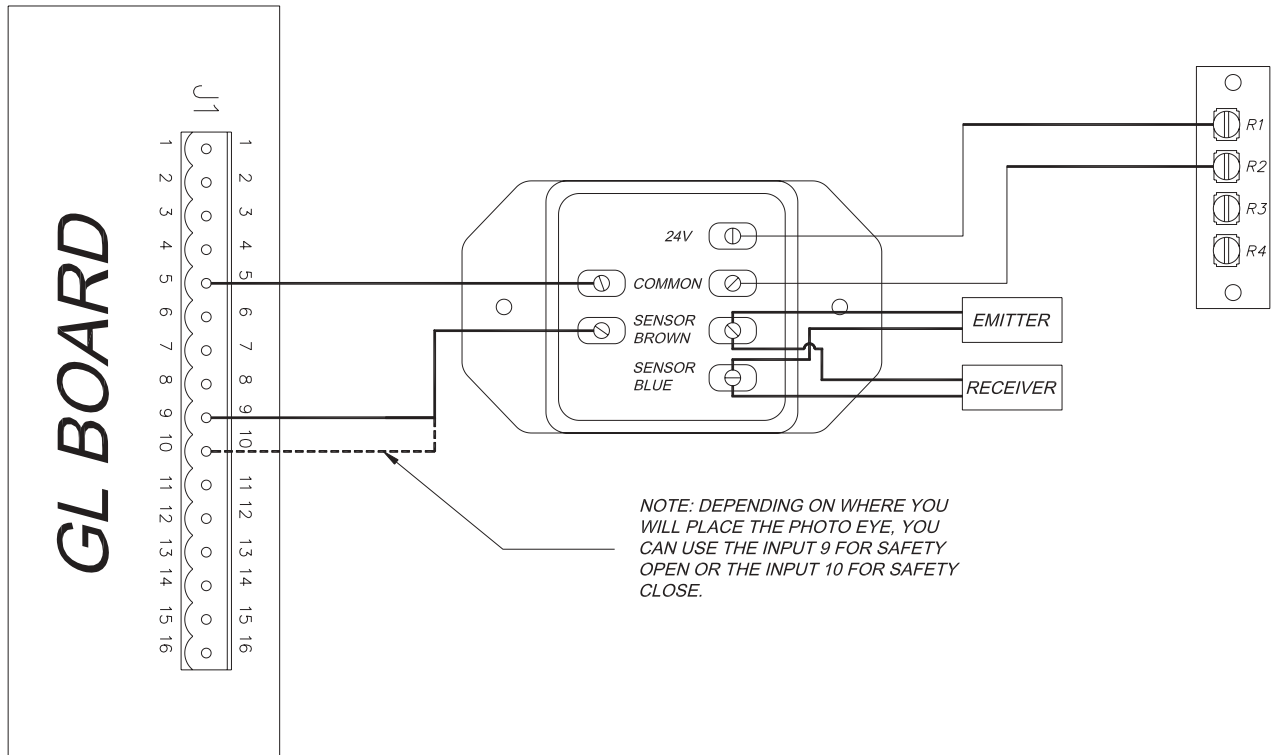


Important Note: When sensors (IRs) are used, wiring mode B2 must be reprogrammed. Sensors must be connected and sending a pulse prior to programming. See LGO owner's manual for further information.

CPS-N4 Wiring Connections for use with LiftMaster Operators Featuring Estate Series X3 or B3 Control Board



CPS-N4 Wiring Connections for use with LiftMaster Operators Featuring GL Control Board



Testing the Protector System®

WARNING

Without a properly working CDO Commercial Protector System®, persons (particularly children) could be SERIOUSLY INJURED or KILLED by a closing garage door. Repeat this test once a month. Professional service is required if the opener closes the door when the CDO Protector System® is obstructed.

TEST THE CDO COMMERCIAL PROTECTOR SYSTEM®

- Press the OPEN button to fully open the door.
- Press the CLOSE button to close the door.
- Obstruct the light beam while the door is closing. *The door should stop and reverse.*

The door opener will not close if the indicator light in either sensor is *not glowing steadily*, alerting you to the fact that the sensor is misaligned or obstructed.

Troubleshooting

1. If the sending eye and receiving eye indicator lights do not glow steadily after installation, check for:
 - Electric power to the opener.
 - A short in the Blue or Brown wires.
 - Incorrect wiring between sensors and interface.
 - An open wire (wire break).
2. If receiving eye indicator light is off (and the invisible light beam path is not obstructed), check for an open wire to the receiving eye.

NOTE: For non-solid state operators, if the door is stopped in a mid position, activation of the sensors will cause the door to open. This is similar to activating a sensor edge.

3. If the sending eye and receiving eye indicator lights are both lit but interrupting the photo eyes does not cause the door to reverse when closing, refer to “To Activate Safety Sensor Eyes” on page 4.

Replacement Parts

CPS-N4	Commercial Protector Interface	41K4629
CPSII-N4	CPSII PC Board	41K4654
CPS-N4 / CPSII-N4 / CPS-LN4		
	Sensor Hardware Kit	K77-16011
	Emitter50-15514
	Receiver50-15515

How to Order Repair Parts

Our large service organization spans America. Installation and service information are available six days a week. Call our toll free number: **1-800-528-2806**

HOURS: (Mountain Std. Time)
7:00 A.M. to 3:30 P.M. Monday through Saturday

When ordering repair parts, please supply the following information:

PART NUMBER DESCRIPTION MODEL NUMBER

Address orders to:
THE CHAMBERLAIN GROUP, INC.
Technical Support Group
6020 S. Country Club Road
Tucson, Arizona 85706

