WIRE THE PHOTO EYES

Connect wires as shown in Figure 5 (next page)

For additional HySecurity wiring diagrams, review the HySecurity Gate Operators UL 325 - 2016 Quick Start Supplement.

ASSIGN INPUT TO PHOTO EYE

To configure the sensor input for the photo eye, take the following steps:

1. Enter Installer Menu.

Press NEXT until S1 Sensor Type appears (if connected to S1. You may connect to S1, S2, or S3). See Figure 1.
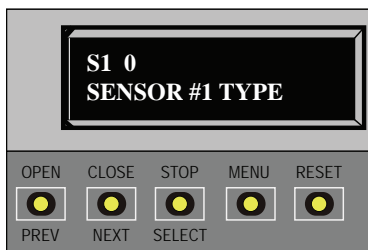

Figure 1. S1 Sensor Type

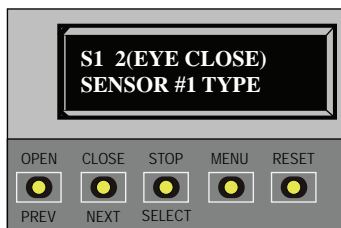2. Set S1 to 2(EYE CLOSE) [or 4(EYE OPEN), if protecting open direction] and press SELECT. See Figure 2.

Figure 2. S1 to 2(EYE CLOSE) Sensor Type

ALIGN PHOTO EYES

To power sensors, turn on Photo Eye Align. When enabled the controller will chirp twice when the photo beam is aligned, once when it is broken. Enable by taking the following steps:

1. From the display keypad, press MENU once. Status displays scroll. When the scrolling stops, the CLOSE TIMER display appears which indicates you have accessed the User Menu.

2. Press NEXT and continue to press NEXT until PE 0 (OFF) appears. See Figure 3.

Figure 3. PE 0 (OFF)

3. Press SELECT. PE characters should begin blinking.

4. To turn ON photo eye alignment and temporarily power the sensors, press NEXT so PE 1 (ON) appears. See Figure 4.
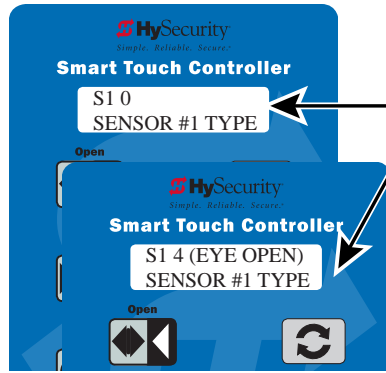

Figure 4. PE 1 (ON)

5. Press SELECT. PE stops blinking. The LEDs associated with the sensor devices should be lit if the sensors are properly connected.

NOTICE
The Photo Eye Align mode turns off with the next limit contact. A power cycle can also turn off the Photo Eye Align mode.

HySecurity
Simple. Reliable. Secure.
Smart Touch Controller

S1 0
SENSOR #1 TYPE

Open

HySecurity
Simple. Reliable. Secure.
Smart Touch Controller

S1 4 (EYE OPEN)
SENSOR #1 TYPE

Open

Installer Menu showing
Sensor 1 set to
Eye Open (Option #4)*

NOTICE
DIP switches must be set as shown, otherwise the photo eye will not operate correctly. Note that older green receiver PCBs are set differently from the newer red PCBs. If you receive an Alert, "**!ACTION BLOCKED**" "**Photo Eye Open"** PEO or "**Photo Eye Close**" PEC, take steps to align the photo eye. See Photo Eye Alignment Feature on

Power Supply Board

EMX IRB MON Photo Eye Transmitter

TRANSMITTER

24V AC Accessory power

COMMON

Common

+24V

+24V

POWER INPUT
IRB-325-MON-TX

COM.

+24V

NOTICE
Wire transmitter power input only to power common (not sensor common).

EMX IRB MON Photo Eye Receiver

RECEIVER

4 = OFF
3 = ON
2 = OFF
1 = OFF

ON

OLDER GREEN RX PCB
Only for GREEN PCBs (before 06/2020), set DIP switches & jumper as shown below.

1 = OFF
2 = OFF
3 = OFF
4 = ON

ON

10K

Ensure jumper is *removed* from two left 10K pins.

C E NC COM NO PWR
IRB-MON RX

+24V

To **Sensor Com**

NC Relay to **Sensor 1**

Jumper between COM & Power Common

DRIVE | POWER | RS485

1	STOP BUTTON
2	OPEN BUTTON
3	CLOSE BUTTON
4	REMOTE OPEN AND RADIO CONTROL
5	OPEN/CLOSE
6	OPEN PARTIAL
7	INTERLOCK OPEN TIME CLOCK OPEN
8	FREE EXIT DETECTOR
9	DISABLE EXIT DETECTOR DISABLE CLOSE TIMER
10	INSIDE OBSTRUCTION VEHICLE DETECTOR
11	OUTSIDE OBSTRUCTION VEHICLE DETECTOR
12	SHADOW/RESET VEHICLE DETECTOR
13	SENSOR 1
14	SENSOR COM
15	
16	DO NOT USE
17	SENSOR 2
18	DO NOT USE
19	SENSOR 3
20	DO NOT USE
21	CHARGER AC LOSS
22	LOCK INTERLOCK
23	EMERG CLOSE
24	FIRE DEPT OPEN

STOP/BUZZER

MOTOR

FREE EXIT

USER 1

VEHICLE DETECTOR

USER 2

INSIDE OBSTR

VEHICLE DETECTOR

USER 3

COM

NO

OUTSIDE OBSTR

VEHICLE DETECTOR

STATUS

SHADOW RESET

VEHICLE DETECTOR

DISPLAY

HySecurity
MX000585
VERSION
S/N

RS232

WIEGAND

LED

Smart Touch Controller

LIMIT | RPM | DUAL GATE | RADIO OPTIONS

COM A B | COM OPEN +24V +24V S 1 COM