

IRB-4X Operating Instructions

IRB-4X Transmitter connections (figure 1)

1. Connect power (12 – 24V AC/DC) to Power input terminals (no polarity)
2. LED2 Power LED will glow green when powered.

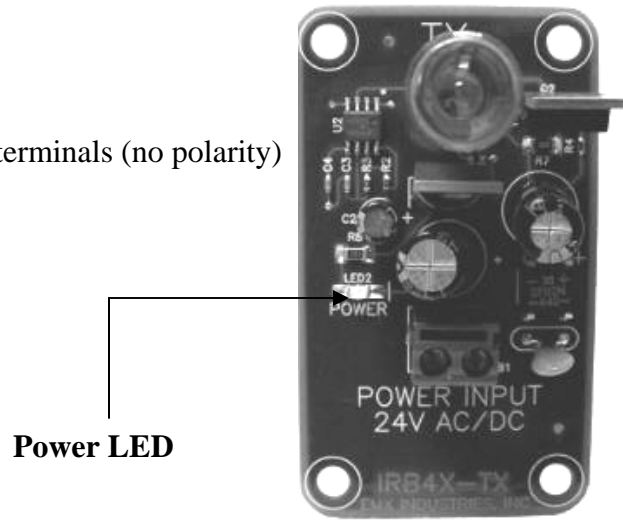


Figure 1

IRB-4X Receiver connections (figure 2)

1. Terminal output connections from left to right are:
Normally closed, Common, Normally open, Power, Power
2. Connect power (12 – 24V AC/DC) to Power input terminals (no polarity)
3. Connect the Common to the operator control terminal per manufacturer
4. Connect either the Normally open or Normally closed as needed to the Control terminal specified by the operator manufacturer.
5. The Power LED will glow green when powered.
6. Adjust sensitivity potentiometer as needed by turning counter clockwise to increase gain. (range is 25 to 115 feet). (see arrow)
7. The detect Led will glow red when an obstruction occurs.
8. On some variable frequency drives and noisy installations, it may be necessary to connect the bottom right mounting hole labeled "Earth Ground" to a wire connected to earth ground.
* Do not connect unless necessary
9. Use minimum gain setting needed to achieve reliable detection.

Detect LED



Figure 2

Power LED

Gain Adjustment

Installation and Mounting Instructions

1. Mount to operator manufacturer and local ordinance requirements.
2. Remove grey front cover by removing (4) plastic retaining screws
3. Drill (4) mounting holes in surface of IRB-4X mounting location.
4. Place gold Aluminum hood (recommended) around IRB-4X unit to be mounted, place mounting screws through IRB-4X box and hood and attach to surface.
5. Make all connections to the transmitter and receiver.
6. Adjust receiver as described above to correct gain needed.
7. Replace front covers on the transmitter and receiver units.
8. Installation is complete.

Technical Specifications	
Power	12- 24volts AC or DC
Current	TX = 37mA RX = 23mA standby 17mA detect
Range	25 – 115 feet
Operating Temp	-40° F to +170° F
Relay contact rating	5A @ 30VDC/250VAC
Housing Material	NEMA 4X Polystyrene
Dimensions	3.7" x 2.56" x 2.24"
Detection angle	24°
Gain Adjustment	Potentiometer

