



PC-3TM

Through beam Photo eye

UL 325 Non-compliant



Operating Instructions



This product is an accessory or part of a system. Always read and follow the manufacturer's instructions for the equipment you are connecting this product to. Comply with all applicable codes and safety regulations. Failure to do so may result in damage, injury or death!

Product Overview

The PC-3 photoeye system does not have a focusing lens and the generous 24° sensing angle makes it one of the easiest to align. Do not use outdoors or where there is chance of getting wet.



WARNING ... Not to be used for Personnel Protection

Never use product as sensing devices for personnel protection. Doing so could cause serious injury or death. These sensors do NOT include the self-checking redundant circuitry necessary to allow their use in personnel safety applications. A sensor failure or malfunction can cause either an energized or de-energized sensor output condition. UL 325 Non-compliant

Technical Specifications

Power Supply	12-24 VDC 24 VAC
Power Supply	+ / - 20%
Current Draw	TX=37mA RX= 23mA standby 17ma detect
Housing Material	PVC Black
Relay Type	Form C DPST contact rating 1A@24VDC/120VAC
Temperature Range	-40F - 170F
Connections	TX=18in 2 conductor RX=18in 5 conductor
Detect Indicator	Red LED
Power protection	Thermal fuse
Environmental	IP50 Not water tight
Range	30 feet
Response Time	10mS (max.)
Size	4in x 2in x 1.5 in.
Detection Angle	24°

Ordering Information

PC-3	PC-3 Transmitter and Receiver
IRB-BR	Set of 2 L Brackets (IRB-4X, PC-3, P63, P44, P41)

Connections

	Transmitter	Receiver
Red Wire	Power Positive (+)	Power Positive (+)
Black Wire	Power Negative (-)	Power Negative (-)
White Wire		Internal Relay Common Output
Brown Wire		Internal Relay Normally Closed Output
Green wire		Internal Relay Normally Open Output
Power is not polarity sensitive		

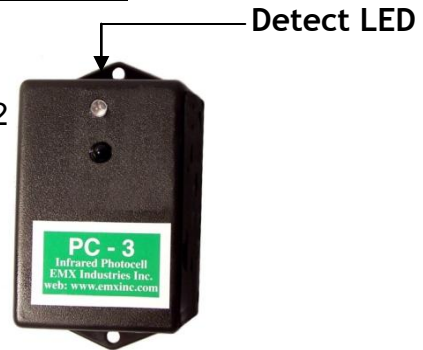
Indicators

Receiver figure 2
Red LED
Detection Indication

Figure 1



Figure 2



PC-3 Transmitter connections (figure 1)

1. Connect power Red (+) positive
 2. Connect power Black (-) negative
- Not polarity sensitive

PC-3 Receiver connections (figure 2)

1. Connect power to Red (+) positive
2. Connect power to Black (-) negative
3. Connect White internal relay common to operator input Common or Gnd as specified by operator manual
4. Connect Green internal relay normally open to operator input open, safety reverse or other as specified by operator manual
5. The Brown internal relay normally closed is not normally used and may be just cut off or left alone
6. The detect Led will glow red when an obstruction occurs.

Trouble Shooting

Symptom	Possible Cause	Possible Solution
Holds gate open	No power on transmitter or receiver	Check power source Check detect LED
	Transmitter not working	Install new transmitter
	Receiver not working	Install new receiver
Does not activate gate	Bad connection or broken wires	Check wires and connections
	Relay contacts burned or stuck	Replace receiver
	Not connected to correct input terminals	Check operator manual for terminals
	Sunlight "blinding" the receiver eye	Change position of receiver to shield the sensor from the direct sunlight
Chattering	Interference or stray bounced signal	See if any reflective surfaces could be sending signal into the receiver sensor

EMX

INDUSTRIES, INC.

4564 Johnston Parkway
Cleveland, Ohio 44128
United States of America
WEB <http://www.emxinc.com>

Technical Support Telephone (216)
834-0761
E-mail technical@emxinc.com

Sales Telephone (216) 518-9888
Fax: (216) 518-9884
E-mail salesupport@emxinc.com

