

# PC-3

Infrared Modulated Photocell

## Applications

The PC-3 photocell is used as a safety device in conjunction with the automatic operator. The PC-3 will work with any control board that accepts dry contacts on the safety input. This easy to install, cost effective photocell is used with garage doors and rolling doors. For sliding gates, swinging gates, and parking barriers the IRB-4X is recommended.

- LED alignment indicator simplifies installation.
- Supervised relay output provides an “open” signal in case of power failure.
- Non-reflective through-beam system is not affected by shiny surfaces.
- Modulated infrared beam is not affected by sunlight, rain, dust or dirt.
- No calibration or sensitivity adjustments are necessary.
- Wide detection angle of 240 simplifies installation and increases the reliability of operation.
- Indoor or protected outdoor operation of 30 feet.

# PC-3



**EMX Industries, Inc.**

4564 Johnston Parkway, Cleveland, Ohio 44128

P. 800 426 9912 F. 216 518 9884

**Sales Inquiries:** [salesupport@emxinc.com](mailto:salesupport@emxinc.com) **Technical Support:** [technical@emxinc.com](mailto:technical@emxinc.com)  
[www.emxinc.com](http://www.emxinc.com)

## INSTALLATION INSTRUCTIONS

### TRANSMITTER

Connect the RED and BLACK wires to a 12V – 24V power supply. The power can be AC or DC. Polarity of the wires is not important. Note: Power fluctuations below 10V and above 30V may degrade the operation of the unit.

### RECEIVER

1. Connect the RED and BLACK wires to 12V – 24V power supply. The power can be AC or DC. Polarity of the wires is not important. Note: Power fluctuations below 10V and above 30V may degrade the operation of the unit.
2. WHITE wire is connected to the relay common contact.
3. GREEN wire is connected to the relay normally open contact.
4. BROWN or ORANGE wire is connected to the normally closed contact.



IRB-BR



PC-3RX



PC-3 TX

## Technical Data

<b>Range</b>	30 feet
<b>Power</b>	12V – 24V AC or DC
<b>Relay Contacts</b>	5A @ 250V AC or 30V DC
<b>Dimensions</b>	4 in. x 2 in. x 1.5 in. 18" lead wire
<b>Housing</b>	Black PVC * Not Water tight

The PC-3 transmitter and receiver are mounted in line of site at a distance of up to 30 feet apart. When the infrared beam is interrupted, the relay common and normally closed contacts in the receiver are closed. The LED indicator is lit when the PC-3 receiver is not aligned or when the beam is interrupted.

## Ordering Information

- IRB-BR Mounting bracket set of 2
- PC-3 Transmitter and receiver modules
- PC-3-TX Transmitter only
- PC-3-RX Receiver only

WARRANTY EMX INC. the product described herein for a period of 2 years under normal use and service from the date of sale to our customer. The product will be free from defects in material and workmanship. This warranty does not cover ordinary wear and tear, abuse, misuse, overloading, altered products, or damage caused by the purchaser from incorrect connections, or lightning damage. There is no warranty of merchantability. There are no warranties expressed, implied or any affirmation of fact or representation which extend beyond the description set forth herein. EMX Inc. sole responsibility and liability, and purchaser's exclusive remedy shall be limited to the repair or replacement at EMX's option of a part or parts not so conforming to the warranty. In no event shall EMX Inc. be liable for damages of any nature, including incidental or consequential damages, including but, not limited to any damages resulting from non-conformity defect in material or workmanship. Rev 1.2 10/29/2011