

INFRARED MODULATED PHOTOCELL PC - 3

PC-3

- 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 24° simplifies installation and increases the reliability of operation.
- Indoor or protected outdoor operation of 30 feet.



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.

TECHNICAL DATA

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.

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

Note: Not for use in applications requiring UL325 compliance.

EMX INDUSTRIES, INC.
4564 Johnston Parkway
Cleveland, Ohio 44128

Telephone:
1-800-426-9912
216-518-9888

Fax: 216-518-9884

WEB: <http://www.emxinc.com>

Email: salessupport@emxinc.com

Technical Support: technical@emxinc.com

EMX
INDUSTRIES, INC.

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.



PC-3 TX

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.



PC-3 RX

ACCESSORIES



IRB-BR

WE ACCEPT VISA, MASTERCARD, AMERICAN EXPRESS
AND COMPANY PURCHASE ORDERS WITH APPROVED CREDIT.



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.

REVISION 1.1 03/04/2008

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.