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PRODUCT INFORMATION BULLETIN

AIR-EAGLE® XLT RF Receiver MODEL 44-2000PI-PIT

DESCRIPTION

The AIR-EAGLE XLT is one of a series of RF systems designed for long-range wireless remote control in a variety of industrial applications. Each system, consists of a receiver and multi-input transmitter. This model is specifically designed to control lightning warning beacons at airports. Integral high current relays can be directly interfaced with the customer's equipment or P.L.C.. Capable of receiving remote signals transmitted from several miles away, the model 44-2000PI-PIT utilizes spread-spectrum technology and provides the utmost security and reliability even in the noisiest RF environments.

INSTALLATION

DISCONNECT AC Power from all equipment before installation.

1. Mount the AIR-EAGLE XLT RECEIVER in a convenient location.
2. Install antenna. The unit has an antenna connector located on the right side on the enclosure.
3. Connect AC power and control to the proper terminals in your control circuit.

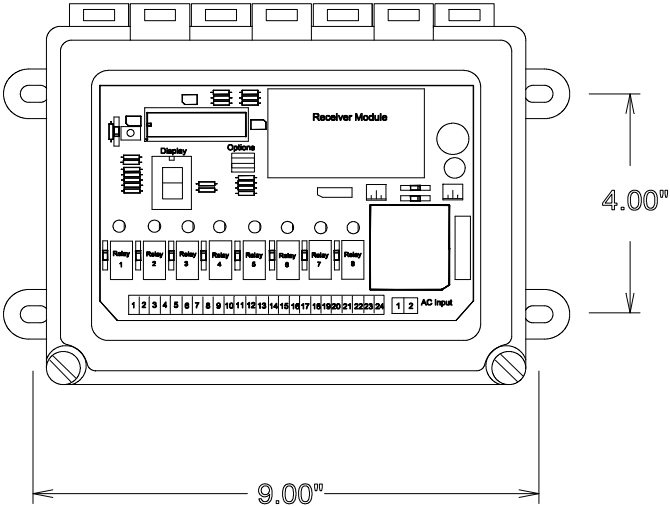
TERMINAL STRIP WIRING

| | | | | | |
|---|--------------|----|--------------|----|--------------|
| 1 | N/O Relay #1 | 10 | N/O Relay #4 | 19 | N/O Relay #7 |
| 2 | C Relay #1 | 11 | C Relay #4 | 20 | C Relay #7 |
| 3 | N/C Relay #1 | 12 | N/C Relay #4 | 21 | N/C Relay #7 |
| 4 | N/O Relay #2 | 13 | N/O Relay #5 | 22 | N/O Relay #8 |
| 5 | C Relay #2 | 14 | C Relay #5 | 23 | C Relay #8 |
| 6 | N/C Relay #2 | 15 | N/C Relay #5 | 24 | N/C Relay #8 |
| 7 | N/O Relay #3 | 16 | N/O Relay #6 | | |
| 8 | C Relay #3 | 17 | C Relay #6 | | |
| 9 | N/C Relay #3 | 18 | N/C Relay #6 | | |

| AC INPUT | |
|-------------|---------------------|
| Terminal #1 | 120 VAC - (Hot) |
| Terminal #2 | 120 VAC - (Neutral) |



DIMENSIONS



Enclosure height equals 4.25 inches.

AIR-EAGLE® XLT

RF Receiver

MODEL 44-2000PI-PIT



CONTROLS AND INDICATORS

| CONTROL / INDICATOR | FUNCTION | | |
|----------------------------|---|------------------------|------------------------------|
| RECEIVER MODULE | RF module that receives data from the remote transmitter | | |
| DISPLAY | 7-Segment LED displays a number corresponding to the relay command being received <u>or</u> signal strength | | |
| SEL1 CONFIGURATION OPTIONS | SW # | OPEN | CLOSED |
| | SW1 | Network 1 | Network 2 |
| | SW2 | Future Option | Future Option |
| | SW3 | No "Signal Loss Delay" | 5 Second "Signal Loss Delay" |
| | SW4 | Normal Operation | Signal Strength Indicator |
| RELAYS | Eight SPDT output control relays | | |

GENERAL OPERATION

Relays #1 thru #5 energize or de-energize based on specific commands from an authorized transmitter. The LED display continually updates, indicating the current relay command being received.

| NUMERIC DISPLAY | SEL1-#4 OPEN (NORMAL OPERATION) | SEL1-#4 CLOSED (SIGNAL STRENGTH INDICATION) |
|-----------------|-------------------------------------|---|
| "0" | Power on / No Relays energized | Power on / No Signal being received |
| "1" | Relay #1 and Relay #2 are energized | Signal Strength "1" received (weakest) |
| "2" | Relay #3 and Relay #4 are energized | Signal Strength "2" received |
| "3" | Relay #5 is energized | Signal Strength "3" received |
| "4" | Not Used On This Model | Signal Strength "4" received |
| "5" | Not Used On This Model | Signal Strength "5" received |
| "6" | Not Used On This Model | Signal Strength "6" received |
| "7" | Not Used On This Model | Signal Strength "7" received |
| "8" | Not Used On This Model | Signal Strength "8" received |
| "9" | N/A | Signal Strength "9" received (strongest) |

SPECIFICATIONS

| | |
|-----------------------|--|
| AC Input Models | 120 VAC, 16 W, 50/60 Hz |
| Fuse Protected | 1 amp |
| Transceiver Frequency | 900 MHz Spread Spectrum |
| Relay Contacts | SPDT 4 amp @ 120 VAC / 30 VDC per channel |
| Receiver Range | Approximately 2/3 mile (up to 10 miles with external antennas - see accessories) |
| Enclosure | Hinged fiberglass with window / NEMA 4, 4x, 12 + 13 |

REPLACEMENT PARTS & ACCESSORIES

| | |
|--|---------------|
| PC Board (Main) | 44-2002PI-PIT |
| Air-Eagle XLT Transmitter (Contact Input) | 44-1000PI-PIT |
| Replacement Transceiver Antennas: | |
| 900MHz TNC Portable Antenna (For Distances Of Up To 2 Miles *) | 49-1103 |
| 900MHz Omni Directional Base Antenna (For Distances Of Up To 10 Miles *) | 49-3101 |
| * = Line of Sight | |

LIMITED WARRANTY STATEMENT

BWI Eagle Inc. warrants the Air-Eagle XLT Remote Control System, if properly used and installed, will be free from defects in material and workmanship for a period of 1 year after date of purchase. Said warranty to include the repair or replacement of defective equipment. This warranty does not cover damage due to external causes, including accident, problems with electrical power, usage not in accordance with product instructions, misuse, neglect, alteration, repair, improper installation, or improper testing. This limited warranty, and any implied warranties that may exist under state law, apply only to the original purchaser of the equipment, and last only for as long as such purchaser continues to own the equipment. This warranty replaces all other warranties, express or implied including, but not limited to, the implied warranties or merchantability and fitness for a particular purpose. BWI Eagle makes no express warranties beyond those stated here. BWI disclaims without limitation, implied warranties of merchantability and fitness for a particular purpose. Some jurisdictions do not allow the exclusion of implied warranties so this limitation may not apply to you. To obtain warranty service, contact BWI Eagle for a return material authorization. When returning equipment to BWI Eagle, the customer assumes the risk of damage or loss during shipping and is responsible for the shipping costs incurred.

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