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PRODUCT INFORMATION BULLETIN

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

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-PAF 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.

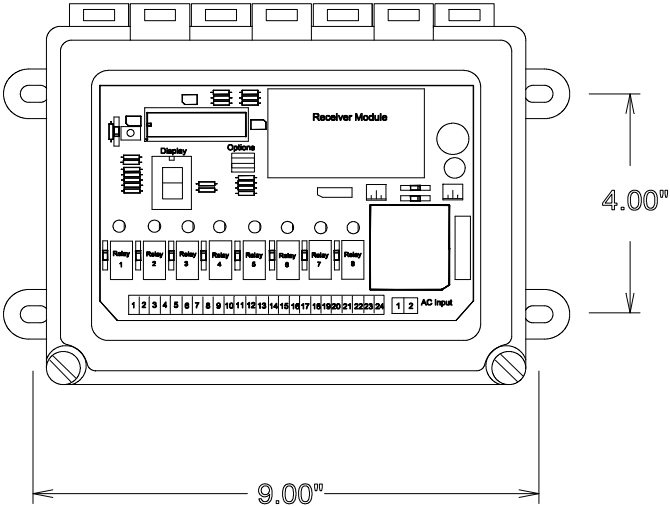
TERMINAL STRIP WIRING

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-PAF



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 or signal strength		
SEL 1 (SW 1 & 2): <i>USED TO SET NETWORK FREQUENCY</i>	Network Address	SW1	SW2
	1	OPEN	OPEN
	2	CLOSED	OPEN
	3	OPEN	CLOSED
SEL1 (SW 3 & 4): <i>USED TO SET CONFIGURATION OPTIONS</i>	SW #	OPEN	CLOSED
	SW3	Future Option	Future Option
	SW4	Normal Operation	Signal Strength Indicator
	RELAYS	Eight SPDT output control relays	

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-PAF
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	

GENERAL OPERATION

Upon receiving a channel #1 "ON" code (amber warning beacon), from the transmitter, relays #1 and #2 will energize. When a channel #1 "OFF" code is received, relays #1 and #2 will de-energize. Upon receiving a channel #2 "ON" code (red alarm beacon), from the transmitter, Relays #3 and #4 will immediately energize. Relays #6 and #7 will energize and de-energize at a one second rate for approximately 14 seconds. When a channel #1 "OFF" code is received, relays #3 and #4 will de-energize and relays #6 and #7 will energize for 15 seconds and then de-energize until the next alarm condition is sent to the receiver. The channel #3 test signal will only operate when there are no alarm conditions 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"	Relays #1 & #2 are energized	Signal Strength "1" received (weakest)
"2"	Relays #3 & #4 are energized	Signal Strength "2" received
"3"	Relay #5 is energized	Signal Strength "3" received
"4"	N/A	Signal Strength "4" received
"5"	N/A	Signal Strength "5" received
"6"	N/A	Signal Strength "6" received
"7"	N/A	Signal Strength "7" received
"8"	N/A	Signal Strength "8" received
"9"	N/A	Signal Strength "9" received (strongest)

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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