



Industrial Wireless ZigBee Relay (IWR)

XBX-CTRFP-44 (sold in pairs)

The IWR provides long range control between I/O devices (such as lights, switches, sensors, pumps, fans, PLCs, motors, generators, etc.). Control inputs are compatible with either dry contacts or DC signal voltages, logic signals, etc. In an ILLUMRA Hybrid: EnOcean + ZigBee system, the IWR can be connected to ILLUMRA 4 Channel Low Voltage Relay Receivers (E3R-R04FP-4).

The Industrial Wireless Relay (IWR) may be used as a stand alone or to form an EnOcean + ZigBee hybrid long range remote control system. ILLUMRA Hybrid systems provide reliable control at distances up to a mile away.

Easy-To-Use

- Installs in minutes
- Zero configuration required

Reliable Range

- Up to one mile range (typical)
- Spread spectrum boosts interference immunity



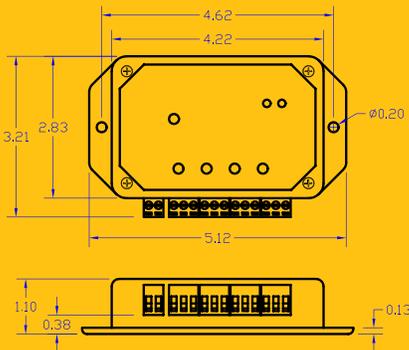
Simple Wireless Control Systems

- Stadium light controls
- Pump station controls
- Wireless plant controls
- Estate and security gates

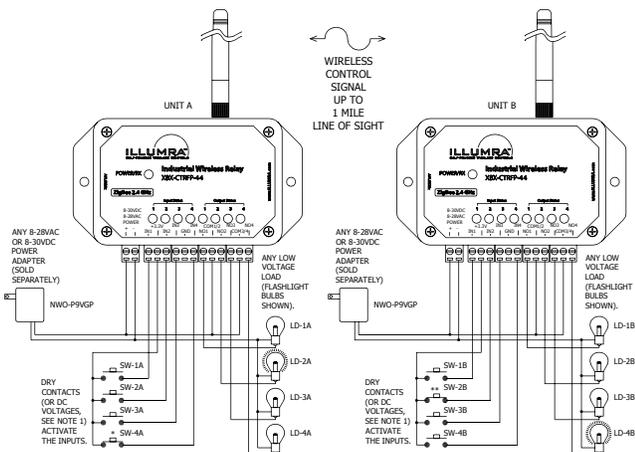
Remote Control Up to One Mile Away

- Connect an ILLUMRA 4-Channel Low Voltage Relay Receiver to an IWR to control the IWR with self-powered wireless light switches and other ILLUMRA transmitters.
- Directly connect I/O devices to inputs on the IWR
- 4 bi-directional, general purpose I/O

XBX-CTRFP-44	
Range (Typical)	up to 1 mile (RF line-of-sight) w/ optional high gain antenna up to 1,000 ft. (Residential) up to 300 ft. (urban/industrial)
Operating Frequency	2.4 GHz (DSSS - Direct Sequence Spread Spectrum)
Transmit Power	60mW (100mW EIRP w/ included antenna)
Power Supply Input Rating	8-30 VDC, 8-28 VAC (3.3 V option available – see installation guide)
Relay Output Rating	4 Each: 2A, 0-30 VAC or VDC, Form A (normally open, SPST)
Interface	4 Each: Inputs - dry or wet contact. Outputs - dry contact (see installation guide)
Typical Latency	5 ms (input to output between units)
Polling Update Rate	1 second
Receiver Timeout	10 seconds (if connection is lost for this long, all relays will open)
Typical Supply Current	18 mA min, 120 mA max (see installation guide)
Operating Temperature	-22°F to 140°F (-30°C to 60°C)
Storage Temperature	-40°F to 140°F (-40°C to 60°C)
Dimensions	4.2"(W) x 2.8"(H) x 1.125"(D) or 10.7cm x 7.2cm x 2.9cm
Radio Certifications	FCC: OUR-XBEEPRO, IC: 4214A-XBEEPRO



Network Diagram



NOTE 1:
IF AN INPUT IS ACTIVATED WITH A DC VOLTAGE, CONNECT THE NEGATIVE SIDE TO GND (LOCATED BETWEEN IN3 AND IN4) AND CONNECT THE POSITIVE SIDE TO THE INPUT (IN1, IN2, IN3, OR IN4). REVERSE POLARITY MAY CAUSE DAMAGE TO THE UNIT.

NOTE 2:
INTERNAL JUMPERS ALLOW USER TO CONFIGURE EACH DEVICE. SEE JUMPER TABLE IN USER MANUAL.

OUTPUTS ON "UNIT A" ARE CONTROLLED BY CORRESPONDING INPUTS ON "UNIT B". **NOTE: LD-2A IS ON, BECAUSE INPUT 2 ON "UNIT B" IS ACTIVATED BY SW-2B.

OUTPUTS ON "UNIT B" ARE CONTROLLED BY CORRESPONDING INPUTS ON "UNIT A". **NOTE: LD-4B IS ON, BECAUSE INPUT 4 ON "UNIT A" IS ACTIVATED BY SW-4A.

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