

RF SENSOR

Part number: VER-4450

Component Specifications



DESCRIPTION

The RF sensor is a superheterodyne type receiver designed to operate at 433.92 MHz receive frequency. Power is obtained from a collector providing 20 volts. A single wire pair is used for both power and signal. RF sensors convert encoded RF signals emitted by badges into electrical signals which are transmitted to a collector via a single twisted pair connection. Each RF sensor also receives its operating power across this same pair. Modulated current loop transmission signaling technology is used by each sensor for high reliability. RF sensors can be run 1000' from collectors using standard unshielded twisted pair telephone type wire. RF sensors are typically mounted in a standard electrical junction box or in acoustic tile using a standard hole saw.

HARDWARE SPECIFICATIONS

Size: 2 3/4" x 1"
Weight: 2.45 oz.
Housing: Polycarbonate
Idle Voltage: 16.0 vdc
Power: 295 mw
Wiring: 24 AWG twisted-pair
Receive Center Frequency: 433.92 MHz
Local Oscillator Frequency: 433.42 MHz (SAW-stabilized)
Receiver Sensitivity: -100dBm typ, -97dBm min
Receiver Input 3dB Bandwidth: 800kHz
Receiver Input Data Rate: 600 bits/sec. max
Operating Temp: 0 - 125 degrees F.
Installation Method: Use 2 3/8" hole saw
Distance: Accum. run length <= 1000'

FEATURES

- Durable polycarbonate construction
- Standard electrical junction-box mounting plate
- Ceiling mount
- Spring-mounting for easy installation

FCC STATEMENT: Components VER-1650 and VER-4450 comply with part 15 of the FCC Rules. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying or tampering with the transceiver's or receiver's internal components can cause a malfunction, invalidate the warranty, and will void your FCC authorization to use these products.

Manufactured by **VERSUS TECHNOLOGY, INC.** 2600 Miller Creek Rd., Traverse City, MI 49684 (616) 946-5868

This product or its systems are covered by one or more of the following U.S. patents: 4,906,853; 5,017,794; 5,027,314; 5,119,104; 5,276,496; 5,355,222; 5,387,993; 5,548,637; 5,572,195.