This Quick Start Guide is intended for experienced installing technicians. It is a basic reference to ensure all connections are properly made. Installation and wiring of systems must be in accordance with the National Electrical Code, ANSI/NFPA 70.

1.0 Description

Long-Range Transmitters and Receivers with an integrated receive antenna comprise Vicon's high frequency, long-range identification solution. Intended for security access control applications, VAX-LRR2 wireless communications are based upon a secure, digital, anti-playback routine. The two-channel Receiver (Channels A & B), model VAX-LRR2, allows Transmitter data to be sent over two separate Wiegand outputs. Formatting of the Wiegand output is dependent upon the data encoded on each individual Transmitter.

2.0 Receiver Layout
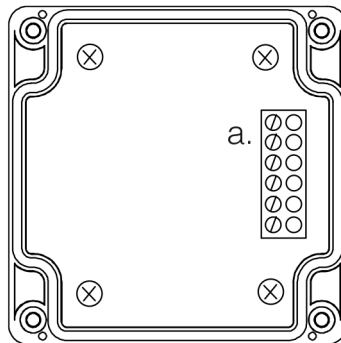
Legend:
a. 6-PIN Terminal Block

3.0 Cable Requirements

24 AWG minimum, multi-conductor stranded with an overall foil shield, for example Belden 9540 or similar. Per the SIA's Wiegand specification, maximum cable length is 500 feet (152.4 m).

4.0 Output Formats

Wiegand (industry standard 26-bit Wiegand and custom Wiegand formats).

5.0 Grounding

Shield (drain) continuity must run from the Receiver to the access panel. Shield and reader ground must be tied together at the access panel and connect then to an earth ground at one point.

6.0 Power

Power required is 12 VDC nominal at 80 mA. The Receiver may be powered by the access panel. A linear power supply is recommended for best operation.

7.0 Mounting

The Receiver may be mounted indoors or outdoors. The enclosure includes pre-drilled holes in the four corners allowing mounting to a flat surface.

8.0 Read Range

Read range is nominally up to 100 feet (30.5 m). For optimal read range, it is important that the Receiver be mounted as far from potential interference sources as possible. These sources may include, but are not limited to, large metal obstructions, as well as magnetic fields and radio transmissions. Note for each installation, read range may vary.

9.0 External LED Indicator

Refer to the information below for explanation on the Receiver's external LED indicator operation:

Green: Initial power up

Amber: Normal powered on state

Flash Green: An activated Transmitter button press has been received and processed

Flash Red: A non-activated Transmitter button press has been detected

Off: Receiver is not powered on, or failed to power up successfully

10.0 6-Pin Terminal Block

Refer to the information below for cabling to the Receiver:

AD0: Button One, Wiegand Data 0, Channel A.

AD1: Button One, Wiegand Data 1, Channel A.

BD0: Button Two, Wiegand Data 0, Channel B.
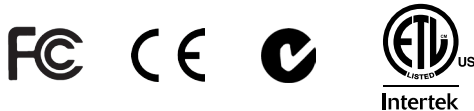
BD1: Button Two, Wiegand Data 1, Channel B.

GND: Power, 0VDC

+VDC: Power, 12VDC Nominal.

11.0 Connection

Connection must be done in accordance with NFPA 70. Do not connect to a receptacle controlled by a switch.

Many Vicon Data Readers carry the following certifications:

FC CE © ETL LISTED US Intertek

FCC compliance Statement: This device complies 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.

Product can be used without license conditions or restrictions in all European Union countries, including Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Luxembourg, The Netherlands, Portugal, Spain, Sweden, and the United Kingdom, as well as other non-EU countries, including Iceland, Norway, and Switzerland.