VAX-500R
PROXIMITY READER

DOORS PARKING TURNSTILES

Frequency: 125 kHz
Read Range: Up to 8 inches (202 mm)

MAXSecure™
Integrated High-Security Technology

fleaPower™
Energy-Conservation Technology

Pro-X™
Read-Range Boosting Technology

ETL Listed
Independently Tested & Certified

Wiegand
Output Interface

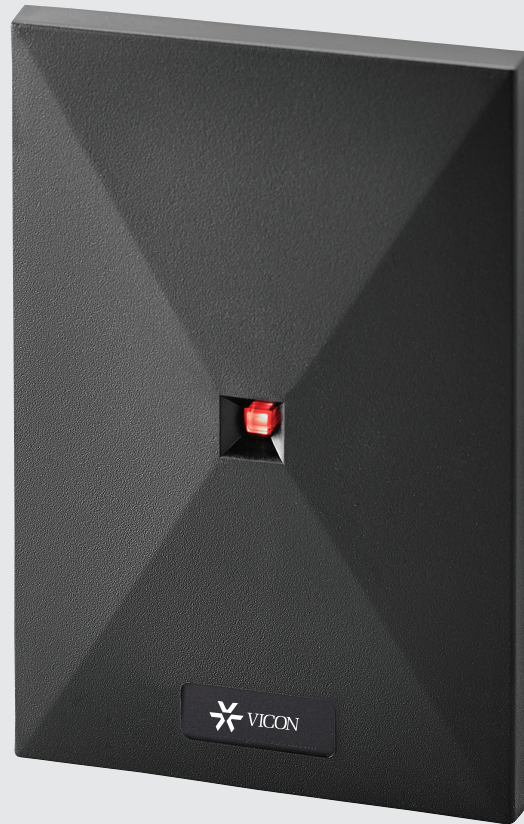**U.S. Single-Gang Wall-Box Mount**
Metal or Plastic Box & Flat Surfaces

VAX-500R PROXIMITY READER

The VAX-500R Proximity Reader sets the electronic security benchmark for 125-kHz proximity readers. Based upon proven contactless digital radio frequency identification (RFID) technology, VAX-500R readers interface with Vicon's VAX access control system by complying with the Wiegand communication protocol. They offer value-add features such as MAXSecure™ and fleaPower™ and support VAX proximity card and tag technologies. Additionally, VAX cards and tags are passive devices, eliminate maintenance by requiring no battery, and can be ordered to support several proximity reader technologies.

Specifications	VAX-500R
Technology	Proximity
Frequency	125 kHz
Mounting	Metal or plastic US single-gang wall box, as well as flat surfaces
Dimensions	3" W × 4.6" H × 0.4" D (76 mm × 117 mm × 10 mm)
Weight	4 oz (113 g)
Certifications	FCC, ICC, CE, C-Tick, ETL Listed
IP Code[1]	IP67
Voltage[2]	+5 – 16 VDC
Current Draw	35 mA typical, 75 mA peak @ 12 VDC
Read Range[3]	Up to 8 inches (202 mm)
Cabling[4]	24 AWG minimum, multiconductor stranded with an overall foil shield
Interface	Wiegand ABA Track II
Operating Temperature	−40° F to 149° F (−40° C to +65° C)
Color Options	Black and a white snap-on cover included standard
Audio Tone	Beeper included standard
Indoor & Outdoor Installation	Electronics sealed in weather- and tamper-resistant epoxy potting
LED	Four-state standard (red, green, amber, and off)
Keypad Output[5]	N/A
Technologies Supported	Vicon VAX Cards and Tags[6]

NOTES:

1   Self evaluated.
2   Linear power supplies are recommended for best operation.
3   Using VAX-CRD-SD Proximity Card with 12 VDC at the reader.
4   For example, Belden 9535 or similar.
5   Available only on VAX-600KP models; 8-Bit Burst or 26-bit Wiegand standard, for 4-Bit Burst and other options, please contact Vicon.
6   Examples may include, and may not be limited to, VAX-CRD-SD, VAX-CRD-MT, and VAX-PRX-TAG.

Vicon reserves the right to change specifications without notice.

Visit our website for detailed information: www.vicon-security.com