



Product at a Glance

- ▶ Mobile-ready contactless smartcard reader
- ▶ Models with read range for upon presentation (1.5 in.) or long range (up to 15 ft)
- ▶ Supports Wiegand output interface
- ▶ Mounts to door and window frames (mullion)
- ▶ Credentials stored on smartphone (iPhone or Android) for communication with reader
- ▶ IP67
- ▶ Powered by 12 VDC

Vicon's series of contactless smartcard readers with mobile access support offers a new level of convenience for Vicon Access Control (VAX) customers who prefer to use their smartphones (iPhone or Android) instead of cards or fobs. Upon installing a smartphone app (VAX-BTC), users can scan their own, unique VAX credentials into their phones, allowing them to communicate via Bluetooth with specialized door readers.

The VAX-BTC mobile access credential utilizes Bluetooth Low Energy (BLE) to enable communication between a smartphone and VAX mobile readers.

Based on proven contactless digital radio frequency identification (RFID) technology, the readers interface with VAX system by complying with the Wiegand or bi-directional OSPD communication protocol. They offer value added features such as MAX-Secure™ and ValidID™, that provide increased security of data, and support both sector and card serial number reads (CSN).

Refer to the table below for details on all models.

ORDERING INFORMATION

Mobile Readers and Credentials

Description	Model Number
MOBILE-READY CONTACTLESS SMARTCARD READER; designed to be mounted to door or window frames (mullion); upon presentation up to 1.5-in. reading range	VAX-CR-35P
MOBILE-READY CONTACTLESS SMARTCARD READER; designed to be mounted to door or window frames (mullion); long-range up to 15-ft reading range	VAX-CR-35L
Credentials	
MOBILE ACCESS CREDENTIAL; stored on smartphone for communication with mobile-ready readers	VAX-BTC

VICON ACCESS CONTROL MOBILE READERS AND CREDENTIALS

SPECIFICATIONS

MOBILE READERS

	VAX-CR-35P	VAX-CR-35L
Technology:	Contactless smartcard and Bluetooth Low Energy (BLE)	
Frequency:	13.56 MHz (contactless smartcard); 2.4 GHz (BLE)	
Read Range:	Up to 1.5 in. (38 mm)	Up to 15 ft (4.6 m)
Interface:	Wiegand (26-bit and custom formats), ABA Track II magnetic stripe (clock and data) or OSDP (Open Supervised Device Protocol)	
Audio Tone:	Beeper included standard	
LED:	Five state standard (blue, red, green, amber and off)	
Technologies Supported:	Interoperable with CSN (may include ISO 14443 compliant credentials, credentials making use of LEGIC® Advant and Prime, and MIFARE® Classic 1k & 4k, MIFARE® DESFire® EV1 & EV2, MIFARE UltraLight® and MIFARE Plus®), and Sector (may include Delta Card Sector, such as MIFARE® Classic 1k & 4k, MIFARE® DESFire® EV1 & EV2, as well as FIPS201 [PIV Type A], TWIC, and CAC credentials), as well as VAX-BTC Mobile Access Credentials.	
Voltage:	+8 - 14 VDC; linear power supply recommended	
Current:	40 mA typical, 195 mA peak @12 VDC	
Cabling:	24 AWG minimum, multi-conductor stranded with an overall foil shield (ex. Belden 9535 or similar)	
Mounting:	Mullions, including metal door and window frames and flat surfaces	
Dimensions (W x H x D):	1.7 x 4.7 x 1.2 in. (43 x 119 x 30 mm)	
Indoor/Outdoor Installation:	Electronics sealed in weather- and tamper-resistant epoxy potting	
Operating Temperature:	-40° F to 149° F (-40° C to 65° C)	
Certifications:	FCC, ICC, CE listed; IP67	

MOBILE CREDENTIALS

	VAX-BTC
Technology:	Bluetooth Low Energy (BLE)
Frequency:	2.4 GHz
Read Range:	With VAX-CR-35P: Up to 1.5 in. (38 mm) With VAX-CR-35L: Up to 15 ft (4.6 m)
Formats:	Wiegand (26-bit and custom formats) and ABA Track II magnetic stripe (clock and data)
Operation:	iPhone or Android-based smartphones
Marking:	Date code and ID; matching internal and external sequential coding standard

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Specifications subject to change without notice.

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