Farpointe Data®
Readers • Credentials

CSR-35L
CONEKT® MOBILE-READY CONTACTLESS SMARTCARD READER

Mounts to single-gang wall switch box

Mounts to mullion

DOORS PARKING TURNSTILES

Conekt Mobile Smartphone Access Control Solution

Frequency: 13.56 MHz and 2.4 GHz
Read Range:
Physical Credentials: Up to 1.5 inches (38 mm)
Mobile Credentials: Up to 15 feet (4.6 m)

Bluetooth Low Energy
Supporting Conekt or Switch™ Tech Smartphone Mobile Credentials

Optimized for MIFARE® DESFire® EV2 & EV3
Integrated High-Security Contactless Smartcard Support

MAXSecure™
Unique Security Feature

ValidID™
Fraudulent Data Detection Solution

ETL Listed — Independently Tested and Certified (Wiegand model)
Conforms to UL Standard 294 and ULC 60839-11-1

Warranty
Farpointe Lifetime Warranty

Wiegand, ABA Track II Magnetic Stripe or OSDP*
Output Interface

Single Reader for Mullion or Wall-Switch Mount
Metal Door, Window Frames & Flat Surfaces

Cansec Systems Ltd.

*OSDP readers are independent models and need to be appended with the suffix "-OSDP" when ordering (Example: CSR-35L-OSDP).

CSR-35L CONEKT® MOBILE-READY CONTACTLESS SMARTCARD READER

Conekt comprises Farpointe Data's contactless smartcard reader solution with mobile access support. Based upon the proven LEGIC® contactless digital radio frequency identification (RFID) platform, Conekt readers interface with a wide range of electronic access control systems by complying with either the legacy Wiegand and ABA Track II magnetic stripe formats, or the latest bi-directional Open Supervised Device Protocol (OSDP). They offer value-add features such as MAXSecure™ and ValidID™, and support both sector and card serial number (CSN) reads. In addition to traditional contactless smartcard access credentials, such as clamshell cards and key tags, the platform also offers the option of mobile access credentials loaded on Bluetooth Low Energy (BLE)-enabled smartphones. This allows the smartphone to function as a contactless electronic access control credential. Conekt access credentials, both traditional and mobile, can be ordered programmed to various formats in exact number sequence required.

Specifications	**CSR-35L Conekt Mobile-Ready Contactless Smartcard Reader**
Technology[1]	Contactless smartcard and Bluetooth Low Energy (BLE)
Frequency	13.56 MHz (contactless smartcard) and 2.4 GHz (BLE)
Mounting	A single reader for metal door and window frames, single-gang wall boxes, and flat surfaces
Dimensions	Mullion: 1.7" W × 4.7" H × 1.2" D (43 mm × 119 mm × 30 mm) Switch Plate: 3" W × 5.1" H × 1.2" D (76 mm × 130 mm × 30 mm)
OEM Label Area	Backlit; Dimensions 0.9" W × 0.35" H (22.86 mm × 8.89 mm) with corner radius of 0.06" (1.5 mm)
Certifications	FCC, ICC, CE, UL Standard 294, ULC 60839-11-1[2]
IP Code[3]	IP67
Voltage[4]	+8 to 14 VDC
Current Draw	60 mA typical, 250 mA peak @ 12 VDC
Read Range[5]	Physical Credentials: up to 1.5 inches (38 mm) Mobile Credentials: Up to 15 feet (4.6 m)[6]
Cabling[7]	24 AWG minimum, multiconductor stranded with an overall foil shield
Interface	Wiegand (26-bit and custom formats), ABA Track II magnetic stripe (clock and data) or OSDP[8]
Operating Temperature	–31° F to 150° F (–35° C to +66° C)
Operating Humidity	0% to 90% relative humidity
Audio Tone	Beeper included standard
Indoor & Outdoor Installation	Electronics sealed in weather- and tamper-resistant epoxy potting
Warranty	Limited lifetime warranty
LED	Five-state standard (blue, red, green, amber, and off)
Technologies Supported	Interoperable with contactless smartcard CSN[9] (may include ISO 14443 compliant credentials and MIFARE® Classic 1k & 4k, MIFARE® DESFire® EV2 & EV3, MIFARE UltraLight® and MIFARE Plus®), Sector (may include Delta Card Sector[10], such as MIFARE® Classic 1k & 4k, MIFARE® DESFire® EV2 & EV3, INSIDE Secure®/PICOPASS® classic-type transponders[11], as well as FIPS201 [PIV Type A], TWIC, and CAC credentials), as well as Conekt[12 13] or Switch™ Tech[14] ("Switch Keys") Mobile Access Credentials.

NOTES:

1 Optimized for use with devices supporting BLE version 4.2 or newer.
2 Carrying the ETL Label and tested by Intertek, conforms to UL Standard 294 and ULC Standard 60839-11-1. Only Wiegand models have been evaluated.
3 Independently tested and verified by Intertek.
4 Linear power supplies are recommended for best operation.
5 For physical credentials, using DC1-1 Delta Clamshell Contactless Smartcard with 12 VDC at the reader. Other credentials may be less. For mobile credentials, read ranges are further subject to the type of smartphone, as well as the manner in which it is used, covers or external batteries affixed, as well as the installation, its environment and individual reader settings.
6 The default BLE Read-Range of a Conekt mobile-ready reader is Short Mode. (See **Bluetooth Low Energy (BLE) Range-Setting Process Reference Document** for more information.)
7 For example, Belden 9535 or similar, supporting the five conductors comprising the physical layer of the Wiegand interface (power, ground, data 0, data 1, and/or beeper and LED). Alternatively, Belden 9539 or similar, for all reader functions. Shielded, twisted pair (Belden 8723 or similar) for OSDP. Contact your access control system manufacturer for their specific requirements.
8 OSDP readers are independent models and need to be appended with the suffix "-OSDP" when ordering (Example: CSR-35L-OSDP).
9 CSN = Card Serial Number.
10 Examples include, but are not limited to, DC1-1, DM1-3, and DK1-3.
11 Revision 8 or newer includes technology support for certain HID® standard classic-type 13.56-MHz contactless smartcard protocols.
12 Conekt Mobile Access Credentials are intended to be supported by the current and preceding versions of Apple® iOS and standard compliant Google Android™ mobile operating software (OS) version OS5 and its successors. Custom OS variants may result in a loss of functionality.
13 Revision 8 or newer includes technology support for Touchless Activation-enabled Conekt Mobile Access Credentials.
14 CSR-35L-ST: The '-ST' suffix indicates support of Switch Tech Mobile Access Credentials.

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Intertek

Patent Pending

Farpointe Data reserves the right to change specifications without notice.

Cansec Systems Ltd.
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