

TX3
Series

Mounts to mullion



Mounts to single-gang wall switch box



Doors



Parking



Turnstiles

Features

- **Bluetooth Low Energy (BLE)**
Supports Conekt Smartphone Mobile Access Credentials
- **Optimized for MIFARE® DESFire® EV1 & EV2**
Integrated High-Security Contactless Smartcard Support
- **MAXSecure™**
Unique Security Feature
- **ValidID™**
Fraudulent Data Detection Solution
- **Wiegand, ABA Track II Magnetic Stripe**
Output Interface
- **Single Reader for Mullion or Wall-Switch Mount**
Metal Door, Window Frames & Flat Surfaces

Description

Mircom's TX3-CSR-35 comprises contactless smartcard reader solution with mobile access support. Based upon the proven LEGIC® contactless digital radio frequency identification (RFID) platform, our 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. 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. Mircom's access credentials, both traditional and mobile, can be ordered programmed to various formats in exact number sequence required.

Specifications

Technology ¹	Contactless smartcard and Bluetooth Low Energy (BLE)
Frequency	13.56 MHz (contactless smartcard) and 2.4 GHz Bluetooth Low Energy (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
IP Code	IP67
Voltage ²	+8 – 14 VDC
Current Draw	40 mA typical @ 12 VDC, 195 mA peak
Read Range ³	Physical Credentials: up to 1.5 inches (38 mm) Mobile Credentials: Up to 15 feet (4.6 m)
Cabling ⁴	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)
Operating Temperature	–40° F to 149° F (–40° C to +65° C)
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 CSN ⁵ (may include ISO 14443 compliant credentials and MIFARE® Classic 1k & 4k, MIFARE® DESFire® EV1 & EV2, MIFARE UltraLight® and MIFARE Plus®), and Sector (may include Delta Card Sector ⁶ , such as MIFARE® Classic 1k & 4k, MIFARE® DESFire® EV1 & EV2, as well as FIPS201 [PIV Type A], TWIC, and CAC credentials), as well as Conekt Mobile Access Credentials. ⁷

NOTES:

- Optimized for use with devices supporting Bluetooth Low Energy (BLE) version 4.2 or newer.
- Linear power supplies are recommended for best operation.
- Using DC1-1 Delta Clamshell Contactless Smartcard with 12 VDC at the reader. Other credentials may be less. 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 and its environment.
- 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.
- CSN = Card Serial Number.
- Examples include, but are not limited to, DC1-1, DM1-3, and DK1-3.
- 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). Custom OS variants may result in a loss of functionality.

Patent Pending

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Ordering Information

Model	Description
TX3-CSR-35	Mobile-Ready Contactless Smartcard Reader



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