



THE NEXT GENERATION IN LOCKING

Carbine CEL 3in1 Touchscreen Locks

CEL-RFID

RFIC Application List



The CEL locks can accept 25 user codes via the codepad

In addition to this, the locks can accept another 25 users via RFID card or Smartphone

RFID Chip Compatibility

CEL-RFID

- + ISO Card
- + Chip:13.56MHz NXP Mifare S50
- + Dimensions:86*54*0.8mm

CEL-RFID-ST-C

- + Metal Label
- + Chip:13.56MHz NXP Mifare S50
- + Dimensions: Ø 25mm

CEL-RFID-WB

- + Silicone wristband
- + Chip:13.56MHz NXP Mifare S50

Dimensions

D195 x W16 x T7.5mm

Material

Silicone

Operating Temperature

-25~85°C

Storage Temperature

-25~140°C

Protection Class

IP68

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Credit Cards & Transport Cards

Any RFID cards that are using MIFARE (13.56mHz) chips will be compatible with the lock. The MIFARE chips (ISO14443 Type A) are widely used on transport cards, but not credit cards as most credit cards including VISA PayWave & Mastercard Paypass use EMV chips (ISO14443 Type B) which are not compatible with the lock.

However, if the credit card can also be used as a transport card (complying to ISO14443 Type A), it is very likely it can be used to operate the lock.

The table below lists the transport cards that are equipped with MIFARE chips in Australia. The link below has more information about MIFARE.

<https://en.wikipedia.org/wiki/MIFARE>



Card Name	Locality	Type	Details
Adelaide Metro metroCard	Australia (Adelaide)	MIFARE DESFire EV1	Adelaide Metro network (Bus, Train and Tram)
TransLink Go card	Australia (Brisbane)	MIFARE Classic 1K	Used on the TransLink public transport network.
ACTION MyWay	Australia (Canberra)	MIFARE Classic 1K	Form of electronic ticketing used on public transport services within Canberra
Metro Green Card	Australia (Hobart)	MIFARE Classic 4	Greencard simplifies public transport by acting like a digital wallet. Used on buses and the metro.
SmartRider	Australia (Perth)	MIFARE Classic 1K	Widely used across the Transperth public transport in metropolitan Perth, as well as the regional town bus services. Used for public bus, train and ferry services.
Opal card	Australia (Sydney)	MIFARE DESFire EV1	Is valid on all bus, rail, light rail and government ferry services in Sydney and surrounding areas such as Central Coast.
Myki	Australia (Victoria)	MIFARE DESFire	Used on public transport such as, trains, buses, trams and coaches in Victoria

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SmartPhones

In addition, most Android phones with NFC function can also be used to operate the lock. Refer to the link below to see which smartphone brands and model numbers are using the MIFARE technology.

<http://www.shopnfc.it/en/content/7-nfc-device-compatibility>

The only information we have is that the locks are compatible with any NFC enabled mobile phone which operates with these MIFARE type systems:

- + MIFARE CLASSIC
- + MIFARE S50 1K UID OK
- + MIFARE S70 4K UID OK
- + MIFARE Ultralight™ UID OK
- + MIFARE Plus™ S 2K UID OK
- + MIFARE Plus™ S 4K UID OK
- + MIFARE Plus™ X 2K UID OK
- + MIFARE Plus™ X 4K UID OK
- + MIFARE DESFire™ EV1 8K UID OK



How can I enable NFC on my phone?

It depends on the model and operating system. In summary:

Android: Settings > Wireless & Networks > (More) > NFC

Windows Phone: App list > Settings > Tap to share / Tap to pay > NFC

BlackBerry: Manage Connections > NFC

<http://www.androidauthority.com/how-to-use-nfc-android-164644/>

<https://support.microsoft.com/en-us/help/11557/windows-phone-nfc-on-windows-phone>

<http://devicehelp.optus.com.au/blackberry/passport/connectivity/turning-nfc-on-my-mobile-phone-on-or-off/>

RFID Cards / Fobs from other manufacturers

In order to guarantee compatibility with the locks, it is recommended to only use the original Carbine RFID cards.

Some other manufacturers RFID cards / fobs with MIFARE chips will be able to be added to the lock and operate it.

However if any changes are made to the settings of those cards /fobs in the original reader they are used in, this may affect operation with the Carbine lock.

Technical Support

Davcor is only able to provide support for our Carbine locks and original cards.

Any issues arising from using other manufacturers hardware to operate our locks may not be able to be resolved due to the settings in the other hardware.

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