

Smart card motorised rim lock

RFMT-22

Opens with a card, a password, the remote or the key. Locks itself when the door closes.

**5 ways to open**

Card, password, remote, key and the inside knob.

Self-locking

The latch locks again as soon as the door shuts.

Alarm built in

Break-in and door-left-open alerts you can switch on.

What's in the box.

Check every part before you start. Contents can vary slightly by batch.



1. Lock body with built-in card reader
2. Strike box (fits on the door frame)
3. Outside card reader
4. Infrared programming remote
5. Keys
6. Key cylinder with spindle
7. Mounting screws
8. Cylinder mounting plate
9. Card

Specifications

Input voltage	12 V DC
Unlocking voltage range	9 – 15 V DC
Working current / standby current	≤ 350 mA / ≤ 80 mA
Latch throw	20 mm
Card type	ID card (EM)
Card reading distance	up to 20 mm
User capacity	1,000 cards
Infrared remote range	up to 3 m
Wireless remote range (optional module)	up to 50 m
Door magnet sensing distance	10 mm or more
Operating temperature / humidity	–20 to 60 °C / 10 – 90 %
Size	128 × 98 × 46 mm

Reading and remote ranges depend on the card and the surroundings. A memory card on the board keeps your saved cards: if the main board is ever replaced, move the memory card across and the cards keep working without re-enrolling.

Install and wire it.

Fit the lock on the inside face of the door, the strike box on the frame, and the card reader outside. Then connect the 12 V supply.

Before you start

- Switch off the power supply while you wire.
- This is not a fire-rated lock. Do not fit it on a fire-escape door.
- No electric or gas welding on the door after the lock is fitted. Welding damage is not covered by warranty.

The main terminal block

ALARM	K-	K+	GND	12V+
Alarm output	Unlock input -	Unlock input +	Power -	Power +12 V

A · STANDARD WIRING

- 12V+** to the +12 V of the power supply
- GND** to the - of the power supply
- ALARM** to the + of a siren or alarm input; its - goes to GND

B · OPEN WITH A POSITIVE SIGNAL

- K-** joined to GND
- K+** receives +12 V (for example through a door-open button) to unlock
- Power** 12V+ and GND as in A

Other connections on the board

- Inside and outside card reader terminals
- Motor terminal
- Wireless remote module terminal
- Memory card (stores your cards)
- Door magnet terminal (door-status sensing)
- Internal battery terminal
- Reset terminal (see page 6)
- Infrared receiver for the programming remote

For the wireless remote module, stretch its antenna wire out straight for the best range. Not sure about a connection? Send us a photo of your wiring on WhatsApp before switching on.

Programming basics.

All settings are made with the infrared remote. Point it at the lock's window from within 3 m.



Programming password (factory)

9999

Door password (factory)

8888

Change both passwords on the day you install the lock.

What the lock is telling you

Rising three-note chime	Accepted. The step worked.
"Di tin tin"	Error. Start the steps again.
Light blinks twice a second	Programming mode is on.
Light blinks once every 2 seconds	Normal use.

Everyday steps

Enter programming mode

* programming password # e.g. * 9999 #

Leave programming mode

* It also leaves by itself after 10 seconds with no key pressed.

Change the programming password

* old password # 0 # new 4 digits # new 4 digits again #

Change the door password

* programming password # 9 2 # new 4 digits # Only one door password is active.

Open the door with the password

door password # No programming mode needed.

Forgot the programming password? Initialise the lock to return it to 9999 (page 6). Saved cards and remotes keep working.

Cards and remotes.

Set a master card first. After that you can add or remove cards in seconds, without the remote.

STEP 1

Set the master card

* **PW** # 8 0 #

After the chime, hold the card near the lock. Only one master card; a new one replaces the old.

ADD CARDS

With the master card

Show the master card once: the yellow light flashes. Show each new card. Show the master card again to finish.

REMOVE CARDS

With the master card

Show the master card twice within 3 seconds: the red light flashes. Show each card to remove. Show the master card again to finish.

Cards with the remote

Add many cards

* **PW** # 1 #

After "di di", hold each card to the lock. Three beeps = saved. Up to 1,000 cards. Showing a card that is already saved ends the session.

Remove a lost card

* **PW** # 5 # **6-digit card number** #

The number is printed on the card: use the six digits after the comma. Card "00,326074" → 326074.

Remove all user cards

* **PW** # 9 0 # 9 0 #

The chime sounds after about 3 seconds. The master card is kept.

Wireless remotes

Needs the wireless receiver module fitted in the lock. Up to 20 remotes, numbered 01 to 20.

Add a remote

* **PW** # 3 #

After "di di", press A on the new remote. After the next "di di", enter its number (01–20) and press #. The original manual also lists code 63 for this step.

Remove a remote

* **PW** # 6 # **remote number** #

A

Open the lock

B

Arm the alarm

C

Disarm and open

D

Lock

PW = your 4-digit programming password (factory 9999).

Quick reference.

Every setting starts with *** PW #**, then the code, then **#**. PW is your programming password.

CODE	SETTING	THEN
0	Change programming password	new 4 digits # new 4 digits #
92	Change door password	new 4 digits #
80	Set master card	hold the card to the lock
1	Add user cards	hold each card; 3 beeps = saved
5	Remove one card	6-digit card number #
90	Remove all user cards	90 #
3	Add wireless remote	press A, then remote number 01-20 #
6	Remove wireless remote	remote number #
85 / 86	Forced-open alarm on / off	chime = done
95	Alarm when the door fails to lock	chime = done
96	Alarm when the door is not locked in time	chime = done
75 / 76	Key-only mode on / off	when on, cards and remotes cannot open
# PIN #	Open with door password	no programming mode needed

Reset to factory settings

With the lock powered, short the two pins marked RESET on the board. When the lock beeps, hold a key on the remote for 2 seconds. Three beeps mean it is done. Passwords return to 9999 and 8888; saved cards and remotes keep working.

Warranty

1 year from the date of purchase for quality problems, when the lock is installed and used correctly. Damage from incorrect installation or welding is not covered. Keep your bill.

Need help? We set it up with you.

Free technical support · Monday to Saturday, 10 AM to 5:30 PM
Setup video: youtube.com/watch?v=g0aaPBIFn8c

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