RF Card Reader & Controller(Model: FR260series)

FR260 register 10,000 pieces of the RF card so controls a door and can be used attaching on a doorframe or wall surface.

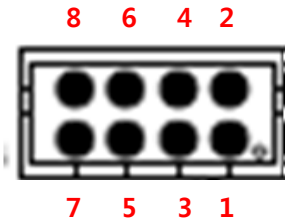
The epoxy-coated inner pcb can be used installing outside, and can be independently used (a network product should be ordered with FR260N) without a separate additional device as it has a circuit to control built-in.

It is simple to register and delete the RF card, and since the setting mode can be easily grasped by the two color tones of LED and the buzzer sound it is convenient to use.

(Appearance and Specification)

Read Range (Mifare card/EM card)	: 4cm / 10cm (based on ISO card)
User key registration /event storage	: Max. 10,000 pcs/10,000 pcs
Door open time (adjustable by network)	: five seconds (fixed)
Selection of kinds of door locks	: Power Fail Safe or Power Fail Secure
Exit button	: Input of one exit button (operable at LOW)
Reading Format	: 26 bit (32 bits for Mifare card) Wiegand
LED/buzzer	: 2 Color LEDs(red, green) / Piezo buzzer
Product colors	: Black Dull luster
Electric power	: DC 12V, Max. 150mA(door lock excepted)
User environment	: -20℃ ~ +65℃, 0~90% absolute hunidity
Product size (WxHxD)	: 79 x 121 x 18mm

(Product wiring diagram)



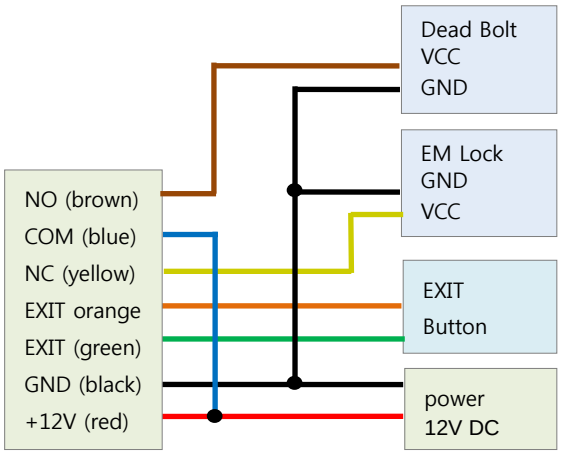
No.1 : BLACK	No.2 : RED
No.3 : WHITE	No.4 : GREEN
No.5 : YELLOW	No.6 : ORANGE
No.7 : BROWN	No.8 : BLUE

*. Power connection: connect No.1 pin to GND of power and No. 2 pin to +12V.

*. Relay output connection: Normal Open (No.7 pin), Common (No.8 pin), Normal Close(No.5 pin)

*. Sensor connection: Sensor0 (No.4pin, Exit), sensor1 (No.3 pin, Door Status)

*. Signal ground: No.6 pin, No. 10 pin, No. 1 pin



(How to register a user)

--. Registration of the master (administrator) card

Turn the power supply ON (factory shipping mode, and green LED flickers)=> approach the card ("bbi" buzzer sound/green & red LED flickers repeatedly, and registers consecutively up to 5 pieces), then the master card is registered and 10 seconds later it is changed into a general mode (green LED flickers long).

*. After opening the product package box, once turn the power supply ON, the initial card becomes a master card, and after registering the master card (1-5 pieces), once register repeating one time, it converts into a user's card registration mode, and 10 seconds later it changes into a normal operating mode (general mode, and green LED flickers long).

*. If the product is normally functioning, it is the general mode and the green LED flickers long.

--. Manual registration of the user's card ("bbi" sound one time)

Approach the master card (long "bbi" buzzer sound, and green LED is repeatedly lighted up for 10 seconds)=> approach the user's card (buzzer sound one time/green LED) => (it is consecutively registered), and once approach the last registration card 2 times, it converts into a normal operating mode.

*. Once approach the registered card, "bbi" sound is produced one time/green LED is lighted up, and once approaches the non-registered card, "bbi bbi" buzzer sound is produced 2 times.

--. Automatic registration of the user's card ("bbi" sound 2 times)

Approach the master card (long "bbi" buzzer sound)=> approach the master card ("bbi, bbi" buzzer sound, and green LED is repeatedly lighted up short)=> approach the user's card ("bbi" buzzer sound, registration of the card and operation of the user's card)=> (once approach a new card in a state that the green LED is repeatedly lighted up short, "bbi" buzzer sound, registration and operation of the card is consecutively registered)=> once approach the master card one time ("bbi" buzzer sound, and green LED), the function of automatic registration is lifted and converted into a general mode.

*. The function of automatic registration is the one to get registered/operated with the card that the user possessed, and after a certain period of time it should be lifted by the master card and will be used in a place where security is not important.

*. In the function of automatic registration, the green LED is in a state being repeatedly lighted up short.

--. Deletion of the user's card ("bbi" sound 3 times)

Approach the master card (long "bbi" buzzer sound) => approach the master card ("bbi, bbi" buzzer sound, and green LED flickers repeatedly) => approach the master card ("bbi, bbi, bbi" buzzer sound) => approach the registered user's card (buzzer sound one time/green LED)=> (possible to delete consecutively)=> approach the master card (mode out)

*. If a certain time (10 seconds) is exceeded while carrying out the function by the master card, it converts into a general mode automatically.

--. Whole deletion of the user's card and master card ("bbi" sound 4 times)

Approach the master card (long "bbi" buzzer sound)=> approach the master card ("bbi, bbi" buzzer sound) => approach the master card ("bbi, bbi, bbi" buzzer sound, and red LED is lighted up)=> approach the master card ("bbi, bbi, bbi, bbi" buzzer sound, and red LED is lighted up for 10 seconds)=> approach the master card ("bbi" buzzer sound, and green LED is repeatedly lighted up)=> it is converted into a factory shipping mode (initialization mode).

*. Be careful as the master card should be registered afresh after converting into the factory shipping mode.

*. To help prevent the whole deletion, it has been set up to make the whole deletion possible only when approaching 4 times and approaching to confirm one more time. If an additional approach to confirm after approaching 4 times is not performed, it is automatically converted into a general mode after a certain time

(10 seconds) and the whole cannot be deleted.

--. Product initialization (factory shipping mode)

Turn the power supply OFF=> put the connector provided upon delivery into the connector inserting part inside of the product=> turn the power supply ON ("bbi, bbi, bbi" sound repeats)=> turn the power supply OFF and remove the connector=> the product is initialized.

*. Bear in mind as the product initialization gets deleted all the information of the event saved on the product and the card registration (including the master card).

(Network connection)

	In case of connecting and using FR260 to a network by Ethernet communication, the product (FR260N) that the network module was attached like the picture left should be ordered. The pc program (FS300) is provided free of charge including the product. The product group of FR260 Series is convenient for simple access control where security is not so important, and the product group of FR260N Series is convenient in case of using both the access control and time & attendance management by a pc monitor.

- The end -

§15.105 Information to the user

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.