RF5I
Proximity Card & Pin code Attendance & Access Controller with TCP/IP n Wiegand 26 Interface

RF5I is the contemporary and innovative Proximity ID card time attendance also offering unparallel performance for physical access controller. Most physical time attendance and access security systems in use these days are based upon magnetic cards, identification numbers (IDs) and proximity cards. And lots of the end user wants to select the Proximity card reader for their project. So we Research and develop out this professional devices to offer to the correct market, that is RF5I

RF5I generally supports RS485/ TCP/IP and Wiegand 26 interface input/output and holds a broad compatibility to any Wiegand 26 Access Controller System. It has supper FUNCTION KEYS such as IN/OUT. Besides, it has BELL button and Alarm output. With the additional sound, it gives an easy verification to users whether he/she has the right to access or not. This model is so flexible when it comes to any request for customization such as back up batteries, language customization and etc. Basically this model is very user friendly because it has many features being built in this compact design.
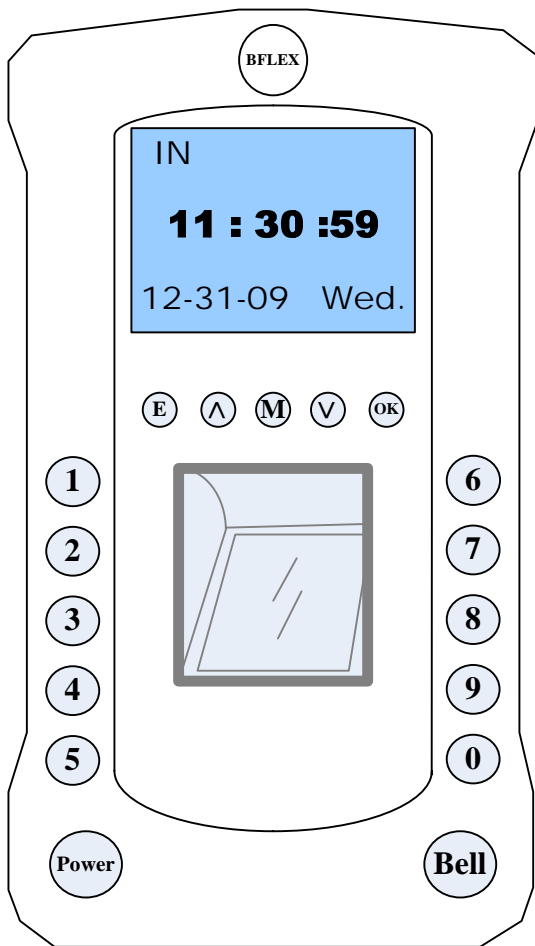
<u>**Application Fields:**</u>
Bursary, Bank, Army, Jail, R&D Institution, Universities, Schools, Security Management System of Government or Enterprise and any applications that require authorized fingerprint authentication to access the premises and for time attendance system..
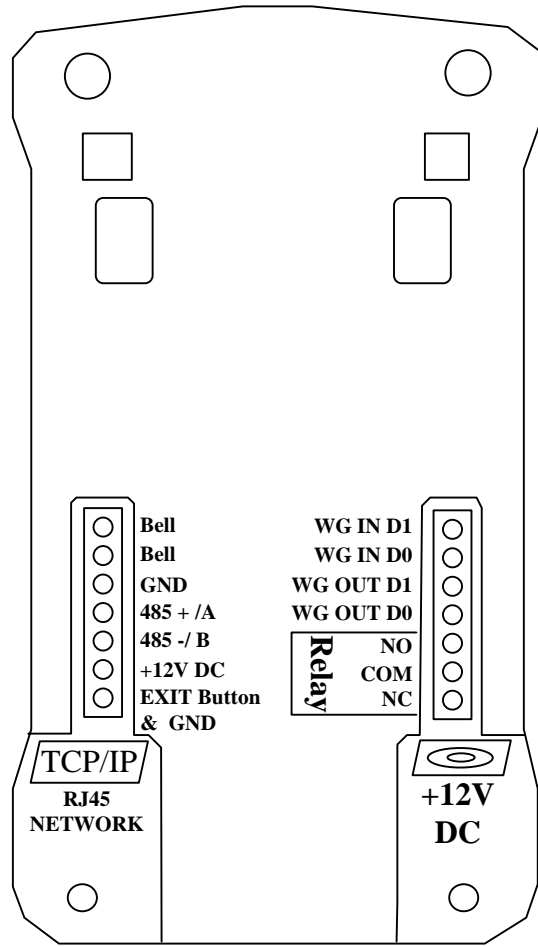
Specification for RF5I

Antenna size	38mm*58mm
Dimensions	172mm×90mm×35mm,1kg
Scan Time	< 0.01 seconds
Scan Distance	<100mm
Verification Speed	< 1.0 seconds (1:10000cards)
Matching Method	1:N
Template capacity Rate	**10000** cards -- **10000**Users **(1 pin code and 1 card with one user ID)**
Backup Option	**Pin code or Card**
Operating Method	Standalone
Manager Log Capacity	1000 Lines
In/Out Log Capacity	51200 Lines
Communication	RS485 , Wiegand 26, TCP/IP(10M/100M) (RS232-USB Converter)
PUSH button	**YES (two pins)**
RELAY OUTPUT Alarm Bell output	**YES** (Delay time can be reset in 1 to 10 second.) The relay can be switched between control relay and Alarm relay by the software.
CARD reader function	Yes RF5I_ID (125KHz card) RF5I_IC (13.56MHz card) RF5I_HID (all kinds of HID card)
Access controller output	Wiegand 26 input/output, support all Wiegand 26 access controller and all kind of wiegand 26 card reader
Simple access controller inside	With simple controller (Build inside) 2 pins for push button Relay output to Em lock (NO,COM,NC)
Operating Humidity	20%-80%
Operating Temperature	-5°C - + 60°C
Voltage Supply	**12VDC@1.5A ,<1W**
Anti-Static Capability	< 40kV
Supported Language	English Spanish French Hungarian
Additional Features	Function Keys, In/Out buttons, Bell button,

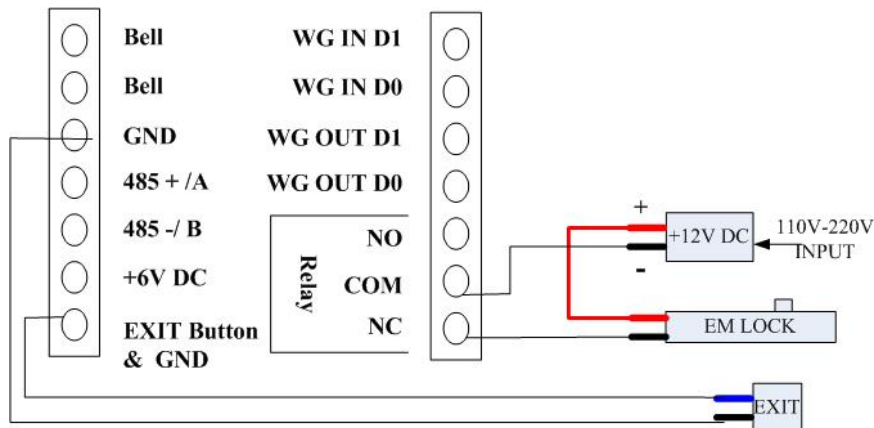- *This model offers ONE year warranty period for manufacturing defects.*

BFLEX

IN

11 : 30 :59

12-31-09   Wed.

E ∧ M ∨ OK

1 6
2 7
3 8
4 9
5 0

Power   Bell

Bell
Bell
GND
485 + /A
485 -/ B
+12V DC
EXIT Button & GND

WG IN D1
WG IN D0
WG OUT D1
WG OUT D0
Relay   NO
COM
NC

TCP/IP
RJ45 NETWORK

+12V DC

The upside of case is made by plastic
And the keypad is made by aluminum.

the base case is made by ZINC.

Bell
Bell
GND
485 + /A
485 -/ B
+6V DC
EXIT Button & GND

WG IN D1
WG IN D0
WG OUT D1
WG OUT D0
Relay   NO
COM
NC

+12V DC   110V-220V INPUT
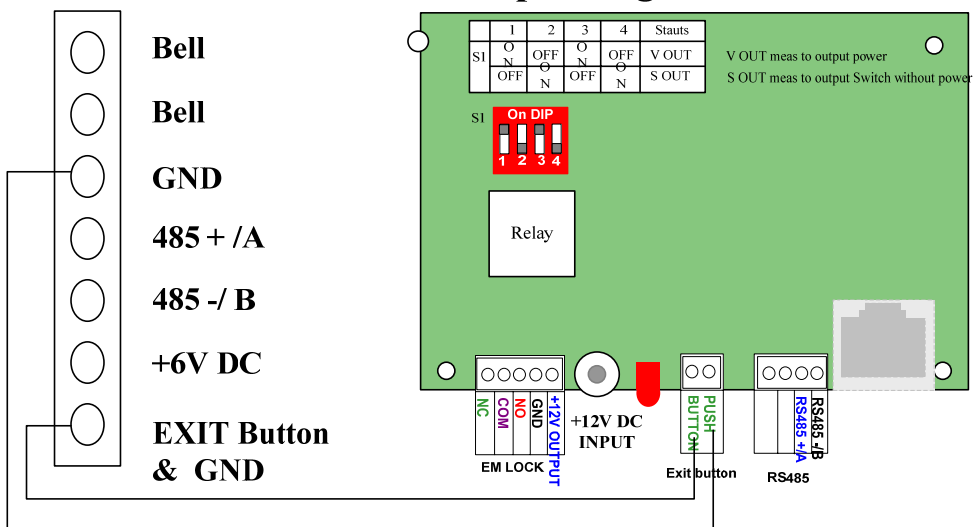
EM LOCK

EXIT

Solution A

It is easy to install. And the cost is economic.
But this solution is not very safe.
A) When the device was token away, the door will open
B) When the device was out of power, the door can not be opened

Simple wiegand 26 controller

	1	2	3	4	Stauts	
S1	ON	OFF	ON	OFF	V OUT	V OUT meas to output power
	OFF	ON	OFF	ON	S OUT	S OUT meas to output Switch without power

S1 **On DIP** 1 2 3 4

Relay

Bell

Bell

GND

485 + /A

485 -/ B

+6V DC

EXIT Button & GND

NC COM NO GND +12V OUTPUT

EM LOCK

+12V DC INPUT

PUSH BUTTON

Exit button
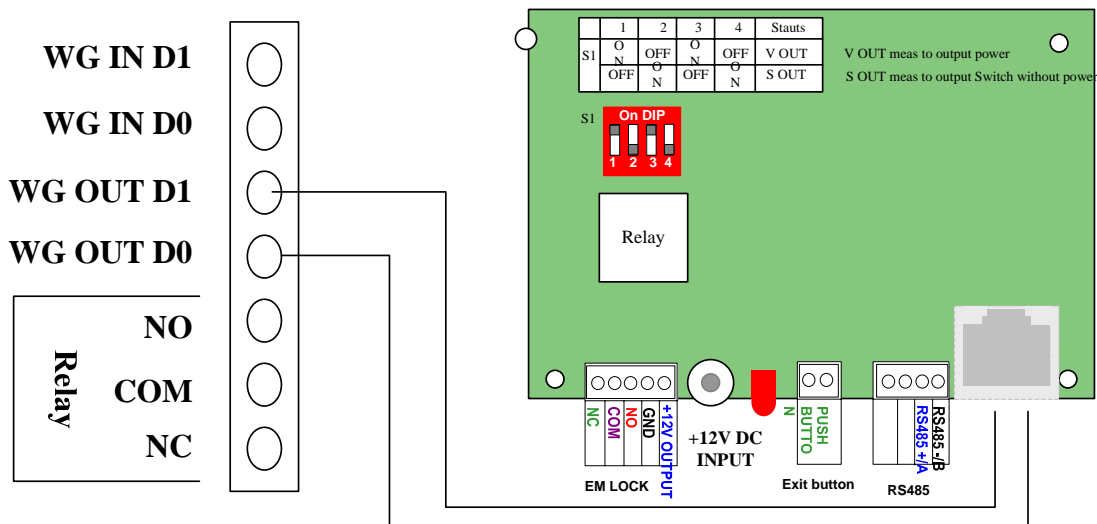
RS485 -/B RS485 +/A

RS485

Solution B

It is the little safe solution. Because the extra controller was inside of the room.
All the EMLOCK and exit button was connected with the extra controller.
A) When the device was token away, the door will be little safe
B) When the device was out of power, the door will be safe and it can not be opened

Simple wiegand 26 controller

	1	2	3	4	Stauts	
S1	ON	OFF	ON	OFF	V OUT	V OUT meas to output power
	OFF	ON	OFF	ON	S OUT	S OUT meas to output Switch without power

S1 **On DIP** 1 2 3 4

Relay

WG IN D1

WG IN D0

WG OUT D1

WG OUT D0

NO

COM

NC

Relay

NC COM NO GND +12V OUTPUT

EM LOCK

+12V DC INPUT

PUSH BUTTON
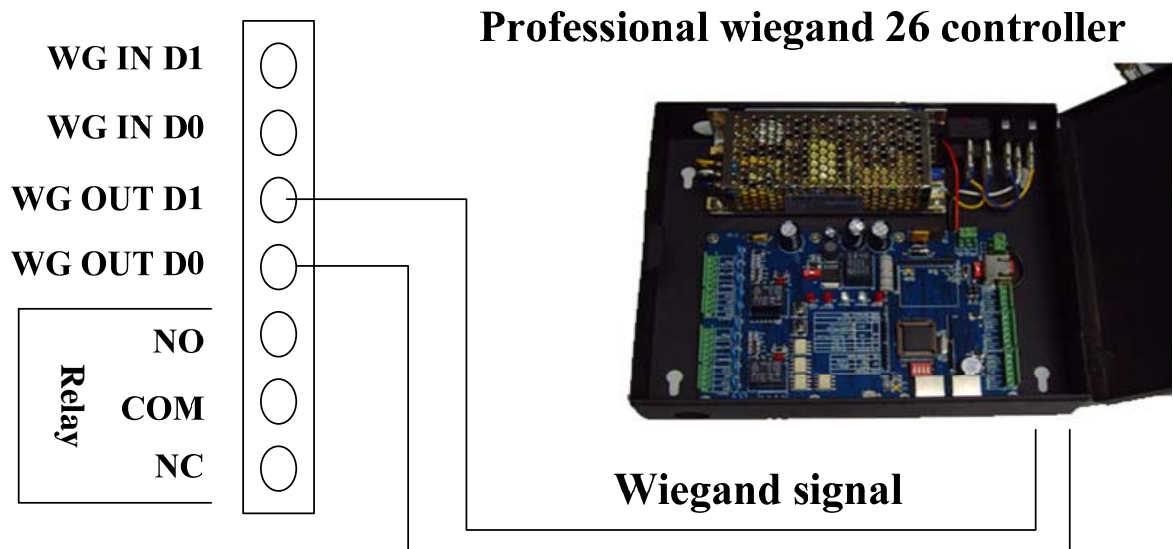
Exit button

RS485 -/B RS485 +/A

RS485

Solution C

This is the safe solution. Because the extra controller was inside of the room. The door will be safe even if the device was token away.
All the EMLOCK and exit button was connected with the extra controller.
Only two Pins from the fingerprint device to the controller.(It is wiegand 26)
(The distance should <50M)

Professional wiegand 26 controller

WG IN D1

WG IN D0

WG OUT D1

WG OUT D0

Relay

NO

COM

NC

Wiegand signal

Solution D

This is the BEST safe solution. Because the extra professional controller was inside of the room. The door will be very safe even if the device was token away.

All the EMLOCK and exit button was connected with the extra controller.

Only two Pins from the fingerprint device to the controller.(It is wiegand 26)

(The distance should <50M)

And the professional controller will set authorization to each user by the registered user id, so that should be the best safe solution.