

ISC-101 Series Operations Manual

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ISC-101 Series Operations Manual

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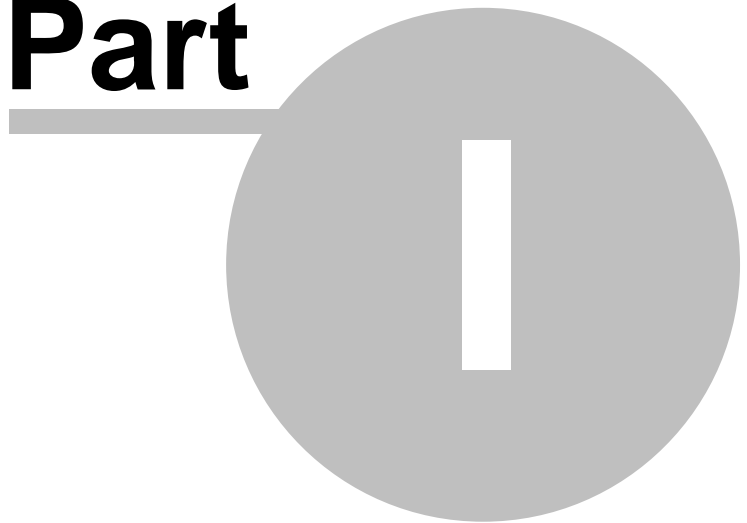
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1 About ISC-101

Created for entry level applications, ISC-101 is compatible with all HID / EM or Mifare proximity cards or keys in any format. ISC-101 is a standalone proximity reader providing single-door proximity access control. It is ideal for small installations requiring proximity card access, or for remote locations when used in an online system.

Easy to use

ISC-101 is a fully programmable standalone access control system, permits entry using proximity technology, for up to 12,000 people. Compact and surface mount, ISC-101 is programmed directly from the unit.

Easy programming

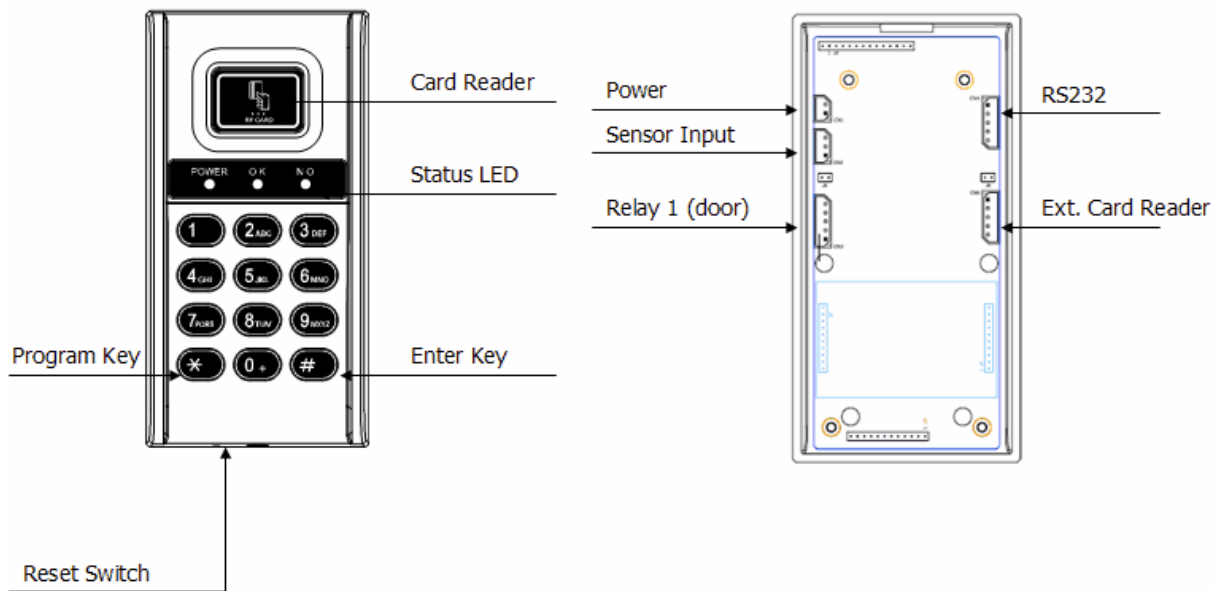
Programming is performed directly from the keypad with visual confirmation of each operation on the 3 status LED.

Easily interfaced: The IntelliScan reader interfaces with all existing Wiegand protocol access control systems. The facility code and card numbers of the cards are represented in a 26-bit Wiegand Standard format.

Features:

- Use integrated reader, keypad, or both
- Available External reader port for anti-passback functionality
- Standalone while computer is offline, your access system is fully functional without a PC connection
- Reads all HID / EM format cards or Mifare
- Multiple Security Modes: 5 total operating modes to choose from
- Status LEDs for visual indication of card accepted or card rejected and an integrated buzzer for card read and door pre-held warning.
- Dual interface with Access Control and Time & Attendance software
- Free software and SDK for expanded functionality
- 512 Timezones
- 365 Holidays
- ISC-101 Reader is very cost effective and comes with exceptional reliability and consistent read range characteristics.
- Works with any other kind of access controller unit that supports Weigand format readers.
- Duress & Anti-Passback function available

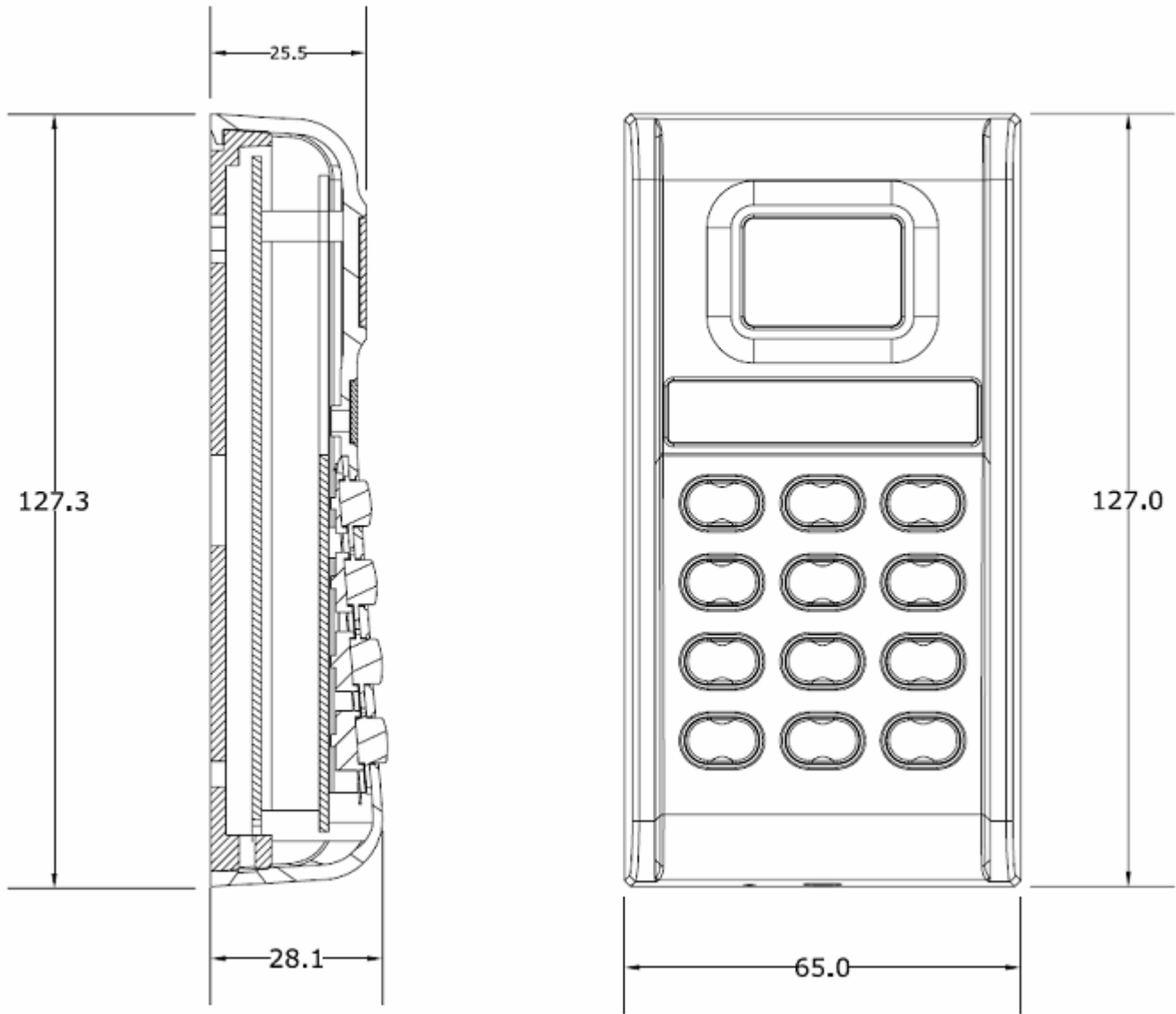
1.1 Overview



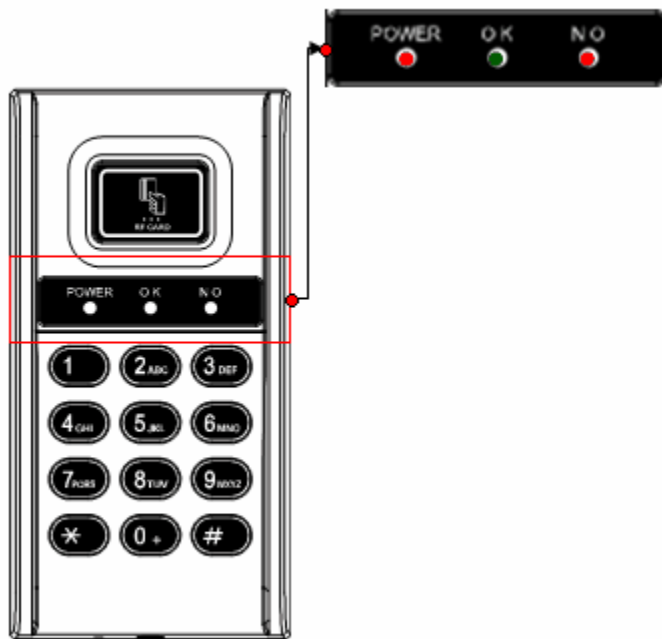
1.2 Specifications

CPU	8-bit uPSD Micro Processor
User Registration	10,000 Users
Transaction Buffer	10,000 Transactions
Communications	Standard: Wiegand Input (External Reader Input) PC: RS232 (Optional : RS422)
Indicator	Red LED: Access denied / Green LED: Access granted / with Audible Beep:
Networking Software	Silver: Access Control Software Gold: Access Control and Time & Attendance Software
Power Requirement	12V DC 300mA
Physical	Dimensions: H127 * W65 * D28mm Material: ABS (Polycarbonate)
Environment	Temperature: -10 ~50 Humidity: 10%~90%
Performance	Reading Range: 5~10cm (Approximately)
Inputs & Outputs	Customizable 2 inputs and 2 outputs(1-Relay, 1-TTL Output)
Recommended Cable	External Reader(ISR-100): 1 Door 2 Reader
Wire	STRIKE TIME : 1 ~ 99 sec ALARM TIME : 1 ~ 99 Min (Buzzer or Relay Output) ALPHA 6212C: 2-Twisted Pair, and Shield Cable with Drain
distance	Belden No. 9329-22 AWG for 1000 ft (305m) maximum
distance	Belden No. 9369-18 AWG for 4000 ft (1220m) maximum
Optional	Reader Type: EM / HID or Mifare
Warranty	1 year parts and labor

1.3 Dimensions



1.4 Status LEDs



POWER: **RED**

OK: **GREEN**

NO: **RED**

1. Normal (Standby):
2. When requesting for Card:
3. When requesting for Admin Card:
4. Waiting mode:
5. Program Mode:
6. Access Granted:
7. Access Denied:

POWER ON / OK & NO OFF

OK & NO blinks alternately

OK & NO blinks same time

OK is one and **NO** is off

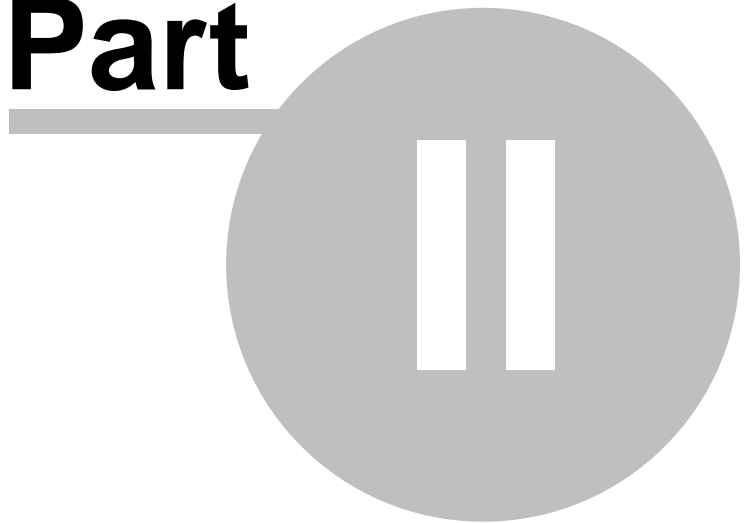
OK is off and **NO** is on

OK on for 1 second

NO on for 1 second

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2 Quick Start

2.1 Entering & Exiting the System Menu

When the reader is powered on for the first time, the reader will be accessible to anyone. If you are enrolling the first administrator via the reader's keypad, you must first determine the 1~16 digit PIN that the administrator will use. Once this PIN is determined, the administrator must be present to enroll their card into the reader. Note that this operation is not valid if there are administrator templates in the reader.

If Administrator has been enrolled:

1. Press * to enter program mode. Once press the **OK** LED will be lit
2. Enter administrator Card
3. **OK** LED will stay lit if administrator verification is successful

If no Administrator has been enrolled:

1. Press the * key to enter program mode. Once pressed, the **OK** LED will be lit. Now you're in system menu

EXITING:

1. Press * 9 9 # key at any given point to exit off the program mode
2. Press * to exit off submenu.

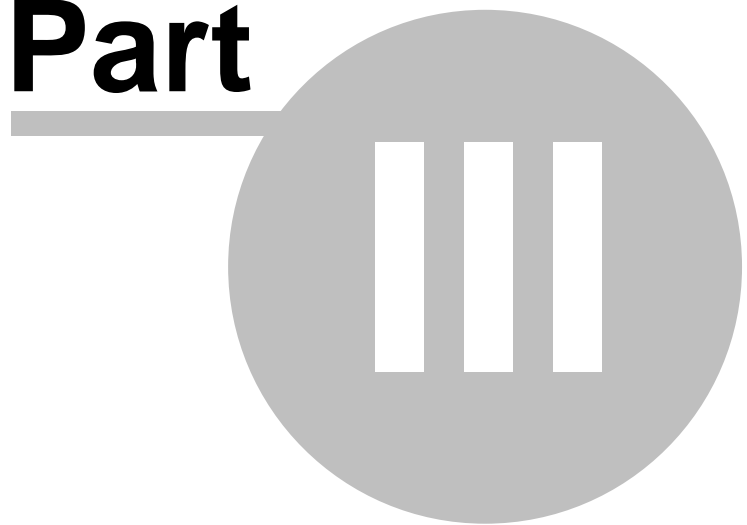
2.2 System Menu Reference

*11#	Enrolling User with Card
*12#	Enrolling Administrator with Card
*13#	Enrolling User with Password Only
*14#	Enrolling Administrator with Password Only
*15#	Enrolling User with Card Block1
*16#	Enrolling User with Card Block2
*21#	Edit User with ID
*22#	Edit User with Card
*23#	Edit User with Level
*24#	Edit User with Anti-pass
*25#	Edit User with Pin-Pass
*26#	Edit User with Two-Man
*31#	Delete User
*32#	Delete All User
*41#	Time Setup

*42#	Operation Mode
*43#	Re-Lock Time Setup
*44#	Address Setup
*45#	Site Code Setup
*46#	System Initialize
*47#	Event Data Initialize
*48#	Communication Speed Setup
*49#	Relay Setup
*51#	System Two-Man Time Setup
*52#	System Anti-Pass Setup
*53#	System Duress Setup
*54#	System Lock-Down Setup
*55#	System Function Key Setup
*61#	System Sensor-Type Setup
*62#	System Sensor Function Setup
*63#	Line Fault Setup
*71#	Alarm Type Setup1 (Intrusion)
*72#	Alarm Type Setup2 (Door Force Open)
*73#	Alarm Type Setup3 (Fire)
*74#	Alarm Type Setup4 (Duress)
*75#	Alarm Type Setup5 (Line Trouble)
*76#	Alarm Type Setup6 (Door Held)
*77#	Alarm Time Setup
*78#	Alarm Off
*99#	Program Mode Exit

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3 ENROLL USER

3.1 User Card

1. Press * **1 1 #** to enter enroll user. STATUS LED: **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the **#** key. **OK** & **NO** LED blinks alternately
3. **Present Card** for automatic entry **or** enter in **card number** manually followed by the **#** key.
4. Repeat process 2 & 3 to enroll next user.

3.2 Administrator Card

1. Press * **1 2 #** to enter enroll administrator. **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the **#** key. **OK** & **NO** LED blinks alternately
3. **Present Card** for automatic entry **or** enter in **card number** manually followed by the **#** key.
4. Repeat process 2 & 3 to enroll next administrator.

3.3 User PIN Only

1. Press * **1 3 #** to enter enroll user. **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the **#** key. **OK** LED will lit with confirming beep then **NO** LED blinks
3. Repeat process 2 to enroll next PIN only user.

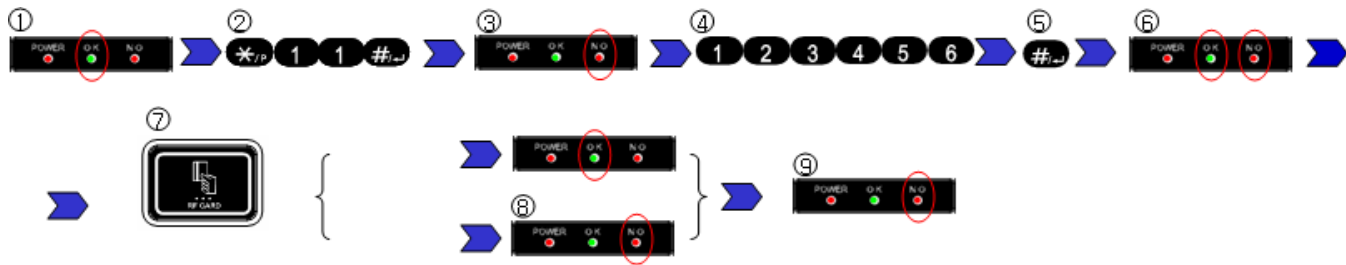
3.4 Administrator PIN Only

1. Press * **1 4 #** to enter enroll administrator. **NO** LED blinks
2. Key in **1 ~ 16** digit administrator PIN followed by the **#** key. **OK** LED will lit with confirming beep then **NO** LED blinks
3. Repeat process 2 to enroll next PIN only administrator.

3.5 Example

This command is used to add typical card only users to the reader so that they will be able to gain entry to the location guarded by the reader. Total number of users are 10,000. The following key sequence performs this action

IE. Enrolling user PIN 123456 with card



3.6 Enrolling Card Block

This command is used to Enrolling a range of cards, Block enrollment by card number range is best used when there is a large quantity of sequential ID numbered cards or credentials. Cards or credentials do not have to be on hand when enrolled through the block enrollment by card number range process, but you must have the facility code. Below is an example to enroll 100 Users with card number starting with 1000. User ID 1000 will be addressed card number 1000, User ID 1001 will be addressed card number 1001 and so on.

⚠ NOTE :

This option will write block of cards in empty slot of the memory and will not delete currently enrolled user. Card Block 1 will take more time than card block2 since it will search for empty slots in memory to enroll. Consider using card block2 if the memory is empty or stored memory is no longer needed.

3.6.1 Card Block 1

1. Press * **1 5 #** to enter Card Block 1. STATUS LED: **NO** LED blinks
2. Enter in **Start User PIN number** followed by the **#**key.
3. Enter in **Start Card number** followed by the **#**key.
4. Enter in **Total User number** followed by the **#**key.
5. **OK** LED will stay lit while enrolling the users. Beep will sound when enrollment process is done.

3.6.2 Card Block 2

1. Press * **1 6 #** to enter Card Block 1. STATUS LED: **NO** LED blinks
2. Enter in **Start User PIN number** followed by the **#**key.
3. Enter in **Start Card number** followed by the **#**key.
4. Enter in **Total User number** followed by the **#**key.
5. **OK** LED will stay lit while enrolling the users. Beep will sound when enrollment process is done.

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4 EDIT USER

4.1 Edit User with ID

This command is used to edit existing users ID by accessing the user ID. When editing, Administrators have the ability to make changes to user ID only in this menu.

1. Press * **2 1 #** to enter edit user PIN. **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the **#** key. **NO** LED blinks
3. Key in new user PIN followed by the **#** key. **OK** LED will lit with confirming beep
4. Repeat process 2 & 3 to edit next user ID.

4.2 Edit User with Card

This command is used to edit existing users Card by accessing the user Card. When editing, Administrators have the ability to make changes to user Card only in this menu.

1. Press * **2 2 #** to enter edit user card. STATUS LED: **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the **#** key. **OK** & **NO** LED blinks alternately
3. Present new user card to the reader. **OK** & **NO** LED blinks alternately
4. Repeat process 2 & 3 to enroll next user Card.

4.3 Edit User with Level

This command is used to edit existing users level by accessing the user ID and Level. User levels determine where a user will be valid. To edit an existing user edit user level, follow the steps below.

1. Press * **2 3 #** to enter user level. STATUS LED: **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the **#** key. **NO** LED blinks
3. Enter user level **1 ~ 4** followed by the **#** key. **OK** LED will lit with confirming beep
4. Repeat process 2 & 3 to edit next user level.

NOTE :

There are four levels of administration,

- 1:USER (Level 1) - Corresponds to an ordinary user. They may verify, but are not allowed to access any administrative functions.
- 2: RA (Level 2) - Corresponds to an enroller. These templates are allowed to add users to the system and verify existing users. However, they can only add users with no administrative privileges (Level 1) and can not access any other administrative functions.
3. AA (Level 3) - Corresponds to an administrator enroller. These templates are allowed to add up to (Level 3) administrator but not system administrator.
4. SA (Level 4) - This is a system administrator level and has full rights to configure the reader.

4.4 Edit User with Anti-pass

Anti pass-back is used to stop two people from using one card to gain access. This feature is designed to protect against tailgating. Once an access is granted to an IN reader, it must be presented to an OUT reader before another IN reader access is granted. In the event that the user did not read in at the IN reader, and tried to read out of an area, an anti-passback violation would occur. The violation may just log the event as an alarm condition, or may not allow the door to be released. Since users who fail to read IN and walk in with other employees may get stranded or locked in. System Anti-Passback must be enable in order for User Anti-passback to work properly.

1. Press * **2 4 #** to enter anti-pass. STATUS LED: **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the **#** key. **NO** LED blinks
3. Key in Anti-Pass options from **1 ~ 3** followed by the **#** key. **OK** LED will lit with confirming beep
4. Repeat process 2 & 3 to edit next user Anti-Pass.

NOTE :

- 1: Enable Anti-Pass
2. Disable Anti-Pass
3. Forgiveness

4.5 ID Option

ID Option is a special mode where user can access the unit with ID only. When applied, user can override the current operating mode and access unit it with just an ID (PIN). This option can be applied to those users who cannot register their fingerprint. To apply this mode to user, follow the steps bellow.

1. Press * **2 5 #** to enter ID Option. STATUS LED: **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the **#** key. **NO** LED blinks
3. Enter **1** to **enable** or enter **2** to **disable** ID Option followed by the **#** key. **OK** LED will lit with confirming beep

4. Repeat process 2 & 3 to edit ID Option.

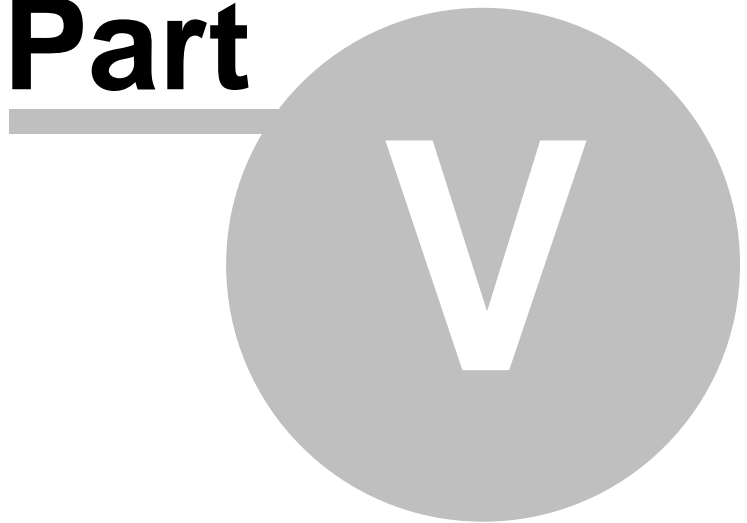
4.6 Edit User with Two-Man

This command prevents an individual user from entering a selected empty security area unless at least one other enrolled user is present. Once two enrolled users are logged into the area, other user can come and go individually, as long as at least two people are in the area. Conversely, when exiting, the last two occupants of the security area must exit out together. At no time will the system allow less than two users to be in the area.

1. Press * **2 6** # to enter ID Option. STATUS LED: **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the # key. **NO** LED blinks
3. Enter **1** to **enable** or enter **2** to **disable** Two-Man followed by the # key. **OK** LED will lit with confirming beep
4. Repeat process 2 & 3 to edit User with Two-Man

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5 DELETE USER

5.1 Delete User

Deleting a user template from a reader will prevent that user from being granted access to the location via the reader. Any user can be removed from a fingerprint reader, including administrative and the last remaining fingerprint template on the reader. User can be deleted by a single user or all users including administrative templates. This section show how to delete a single user.

1. Press * **3 1** # to enter enroll user. STATUS LED: **NO** LED blinks
2. Key in **1 ~ 16** digit user PIN followed by the # key. **OK** LED will lit with confirming beep
3. Repeat process **2** to delete next user.

5.2 Delete All User

Deleting a user from a reader will prevent that user from being granted access to the location via the reader. Any user can be removed from a reader, including administrative and the last remaining user on the reader. User can be deleted by a single user or all users including administrative user. This section show how to delete all user.

1. Press * **3 2** # to enter enroll user. STATUS LED: **NO** LED blinks
2. Press 1 to delete all user or press 2 to cancel. **OK** & **NO** LED blinks alternately then **OK** LED will lit with confirming beep
3. Press * to exit delete user mode

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6 SYSTEM SETUP

6.1 Time Setup

IntelliScan features an internal clock that provides the date and time for all logged events. This section discusses how to set the date and time that IntelliScan uses for event logging. To set the current time, access the menu system and follow these steps:

1. Press * **4 1 #** to enter Time Setup. STATUS LED: **NO** LED blinks
2. Key in current date followed by the # key. If today's date is 12/31/2005, enter **051231#**. **NO** LED blinks
3. Key in current time followed by the # key. If current time is 5:30:51 PM, enter **173051#**. **NO** LED blinks
4. Key in days from **1 ~ 7** followed by the # key. Refer to day of the week. **OK** LED will lit with confirming beep
5. Press * to exit Time Setup.

NOTE :

Date:

Year: first two digit **05**
1231

Month: third and four
digit 05**12**31

Day: Last two digit 0512
31

Time:

Hour: First two digit **17**
3051

Minute: Third and fourth
digit 17**30**51

Second: Last two digit
1730**51**

Select the day of the week:

1 Sunday
2 Monday
3 Tuesday

4 Wednesday
5 Thursday
6 Friday
7 Saturday

6.2 Operation Mode

This section provides information about how to choose the operation mode. The IntelliScan supports 5 different operation modes. All operation modes are explained below.

1. Press * 4 2 # to enter Operating Mode. STATUS LED: **NO** LED blinks
2. Key in operating mode from 1 ~ 5 followed by the # key. **OK** LED will lit with confirming beep
3. Press * to exit Operation Mode.

There are 5 different modes available for IntelliScan:

MODE 1 = PIN OR CARD

User must enter either PIN or card afterward.

MODE 2 = CARD ONLY

User must present card.

MODE 3 = PIN AND CARD

User must access with PIN and card . When operating in this mode, user must enter PIN and present card afterward.

MODE 4 = ALWAYS OPEN

Access point will stay open for an emergency such as fire

MODE 5 = ALWAYS CLOSE

Access point will stay locked for an emergency such as intrusion

6.3 Re-Lock Time Setup

This is the maximum duration that the lock release relay will be energized. The relay is de-energized if the door opens before this time has expired. The lock time can be set in the range 01~99 seconds. You cannot set a lock time of 0 seconds. Default is 4 seconds.

1. Press * 4 3 # to enter Re-Lock Time. STATUS LED: **NO** LED blinks
2. Key in re-lock time from 1 ~ 99 followed by the # key. **OK** LED will lit with confirming beep
3. Press * to exit Operation Mode.

6.4 Address Setup

Communication options allow IntelliScan to communicate with a PC and other door control equipment. In network applications, IntelliScan units communicate with a connected PC. This requires each unit to have a unique identification code. To assign

a Network ID, follow the steps listed below: Repeat this procedure for each networked unit, assigning a unique identification code to each unit. Each unit can have 1 ~ 14 address.

1. Press * 4 4 # to enter Address. STATUS LED: **NO** LED blinks
2. Key in device address from 1 ~ 14 followed by the # key. **OK** LED will lit with confirming beep
3. Press * to exit Operation Mode.

6.5 Site Code Setup

A site code, which is sometimes called a facility code, differentiates one users card group from another. A facility code is an integral code that is programmed into the card at the time of manufacture. The additional code ensures that even if card numbers are duplicated by the manufacturer, that the cards will not operate on someone else's building who has a different facility code. Limitations inherent in the card manufacturing process result in the ability to produce a finite card population, after which codes are duplicated. Facility codes overcome this limitation adding a second code which is checked at the reader. If the facility code does not match the programmed code, entry is denied.

1. Press * 4 5 # to enter . STATUS LED: **NO** LED blinks
2. Key in device address from 1 ~ 5 followed by the # key. **OK** LED will lit with confirming beep then **NO** LED blinks (Refer to Note #2)
3. Key in site code from 1 ~ 65534 followed by the # key. **OK** LED will lit with confirming beep then **NO** LED blinks (Refer to Note #3)
4. Press * to exit Site Code Setup.

NOTE :

(2) CARD TYPE

- 1: EM Standard 26bit Card
- 2: HID Standard 26bit Card
- 3: HID Full Binary 26bit Card
- 4: HID IDTi 34bit Card
- 5: Mifare 32bit UID Card

(3) SITE CODE

- 1: 1~255
- 2: 1~255
- 3: NONE
- 4: 1~65534
- 5: NONE

6.6 System Reset

There are two databases inside the IntelliScan, System Database & Event Database. The System Database stores the system setting information. System reset will delete all system memory including user and event. When executed, the system reset will restore the factory default setting.

1. Press * 4 6 # to enter System Reset. STATUS LED: **NO** LED blinks
2. Press 1 followed by the # key to reset system or press **any other key to cancel**. **OK** LED will lit with confirming beep

6.7 Event Reset

The Event Database only stores the access records. It does not contain any system information. When executed, event reset will erase all event logs that are stored in the memory.

EVENT RESET

1. Press * 4 7 # to enter Event Reset. STATUS LED: **NO** LED blinks
2. Press 1 followed by the # key. (**Event Reset**) **OK (1 once)** & **NO (3 times)** LED blinks alternately then **OK** LED will lit with confirming beep
3. Press 1 followed by the # key to reset system or press **any other key to cancel**

INDEX RESET

1. Press * 4 7 # to enter Event Reset. STATUS LED: **NO** LED blinks
2. Press 2 followed by the # key. (**Index Reset**) **OK (1 once)** & **NO (3 times)** LED blinks alternately then **OK** LED will lit with confirming beep
3. Press 1 followed by the # key to reset system or press **any other key to cancel**

6.8 Communication Speed Setup

This command sets the baud rate that the reader will communicate with the device connected to its serial port. The baud rate change will become effective immediately upon completion of the command.

1. Press * 4 8 # to enter Communication Speed Setup. STATUS LED: **NO** LED blinks
2. Key in communication speed from 1 ~ 5 followed by the # key. **OK** LED will lit with confirming beep

1 : 4800 2 : 9600 3 : 19200 4 : 38400 5 : 57600

6.9 Relay Setup

The relay output is Normally Open (N.O.), and toggles shorted when triggered by an event, such as an authentication or ID failure. The relay can be used to send power to switched items like electric door strikes, door handles, magnetic hold locks¹, or indicators.

Relay 1 Setup

1. Press * 4 9 # to enter Relay Setup. STATUS LED: **NO** LED blinks
2. Press **1** followed by the # key to program relay **1**. **OK** LED will lit with confirming beep
3. Key in function type from **1 ~ 3** followed by the # key. (Refer to "Relay Function Type")

Relay 2 Setup

1. Press * 4 9 # to enter Relay Setup. STATUS LED: **NO** LED blinks
2. Press **2** followed by the # key to program relay **2**. **OK** LED will lit with confirming beep
3. Key in function type from **1 ~ 3** followed by the # key. (Refer to "Relay Function Type")

Relay Function Type:

- 1 : DOOR
- 2 : ALARM
- 3 : LOCKDOWN

6.10 System Two-Man Time Setup

This command prevents an individual user from entering a selected empty security area unless at least one other enrolled user is present. Once two enrolled users are logged into the area, other user can come and go individually, as long as at least two people are in the area. Conversely, when exiting, the last two occupants of the security area must exit out together. At no time will the system allow less than two users to be in the area.

1. Press * 5 1 # to enter Two Man. STATUS LED: **NO** LED blinks
2. Press **1** followed by the # key to enable two man or press **any other key to disable**. **OK** LED will lit with confirming beep
3. Press * to exit Two-Man Mode.

6.11 System Anti-Pass Setup

Anti pass-back is used to stop two people from using one card to gain access. If access is denied because of this, this will result in an alarm message to the printer. It may also result in a relay being energized if you have programmed one to do so. This is a system anti-pass setting and user anti-pass setting also must be enabled in order for it to work properly.

1. Press * 5 2 # to enter Anti-Pass. STATUS LED: **NO** LED blinks
2. Press **1** followed by the # key to enable anti-pass or press **any other key to**

- disable.** **OK** LED will lit with confirming beep
3. Press * to exit Anti-Pass Mode.

6.12 System Duress Setup

Duress is a condition whereby a user may be confronted by an intruder in an effort to gain access to a secure area. The user can "secretly" signal security that he is entering the secure area under "duress" through the implementation of a duress feature. This function must be used with a function key in order to work.

1. Press * **5 3 #** to enter Duress. STATUS LED: **NO** LED blinks
2. Press **1** followed by the **#** key to enable duress or press any other key to disable. **NO** LED blinks
3. Key in duress code from 1 ~ 44 followed by the **#** key. **OK** LED will lit with confirming beep
4. Press * to exit Duress Mode.

System function key must be enable to use the duress.

6.13 System Lockdown Setup - External Alarm System

IntelliScan features option to use a auxiliary relay to arm/disarm an external alarm system called the lockdown. This section discusses how to enable lockdown device.

1. Press * **5 4 #** to enter lockdown. STATUS LED: **NO** LED blinks
2. Press **1** followed by the **#** key to enable lockdown or press **any other key to disable.** **OK** LED will lit with confirming beep
3. Press * to exit Lockdown Mode.

6.14 System Function Key Setup

IntelliScan features option to use the numeric keys as function keys. This section show how to customize the function key.

1. Press * **5 5 #** to enter lockdown. STATUS LED: **NO** LED blinks
2. Press **1** followed by the **#** key to enable function key or press **any other key to disable.** **OK** LED will lit with confirming beep
3. Press * to exit Function Key Mode.

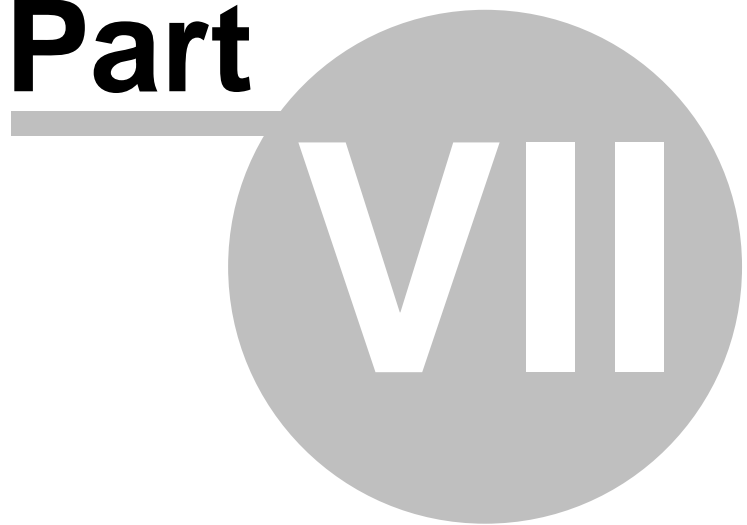
NOTE :

1 to 49 is reserved for function keys and won't be able to use them as user ID. To use these numbers as user ID, user must press 00 before the user ID number. For instance, if the user ID number is 10, press 0010.

Function Number	Keys r to	Press	Function Number	Keys r to	Press	Function Number	Keys r to	Press	Function Number	Keys r to	Press
F1:		11 or 1	F2:		21 or 2	F3:		31 or 3	F4:		41 or 4
1/F1			1/F2			1/F3			1/F4		
F1: 2		12	F2: 2		22	F3: 2		32	F4: 2		42
F1: 3		13	F2: 3		23	F3: 3		33	F4: 3		43
F1: 4		14	F2: 4		24	F3: 4		34	F4: 4		44
F1: 5		15	F2: 5		25	F3: 5		35	F4: 5		45
F1: 6		16	F2: 6		26	F3: 6		36	F4: 6		46
F1: 7		17	F2: 7		27	F3: 7		37	F4: 7		47
F1: 8		18	F2: 8		28	F3: 8		38	F4: 8		48
F1: 9		19	F2: 9		29	F3: 9		39	F4: 9		49

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7 SENSOR SETUP

7.1 Sensor Type Setup

The sensor inputs are factory defaulted to Normally Open (N.O.). This section show how to change the sensor input to either N.O. or N.C.

1. Press * **6 1 #** to enter Sensor. STATUS LED: **NO** LED blinks
2. Press **1** followed by the **#** key to setup **sensor 1**.
Press **2** followed by the **#** key to setup **sensor 2**. **OK** LED will lit with confirming beep
4. Press **1** for **N.O** or press **2** or **N.C**.
3. Press * to exit.



7.2 Sensor Function Setup

These are the sensor inputs found in IntelliScan control panel that control external devices. There are 2 sensor inputs in IntelliScan and all of them can be programmed to handle different types of external sensors from the system menu.

1. Press * **6 2 #** to enter Sensor Function Setup. STATUS LED: **NO** LED blinks
2. Press **1** followed by the **#** key to setup **sensor 1**.
Press **2** followed by the **#** key to setup **sensor 2**.
3. Press **1** through **8** followed by the **#** key to setup sensor function. **OK** LED will lit with confirming beep
4. Press * to exit.

Sensors are used in conjunction with alarm setups. Once the sensor is made active, go to Alarm Type Setup and configure the output type. Sensor can be re-programmed depending on the installation.

- 1: INACTIVE
- 2: EXIT BUTTON SENSOR
- 3: ALARM SENSOR (ALARM SETUP: ALARM SENSOR)
- 4: FIRE ALARM SENSOR (ALARM SETUP 3: FIRE ALARM)
- 5: LOCK SENSOR (ALARM SETUP 6: LOCK HELD)
- 6: DOOR CONTACT SENSOR (ALARM SETUP 2: FORCE OPEN / DOOR HELD)
- 7: INTRUSION SENSOR (ALARM SETUP 1: INTRUSION)
- 8: LOCKDOWN SENSOR - To use a auxiliary relay to arm/disarm an external alarm system

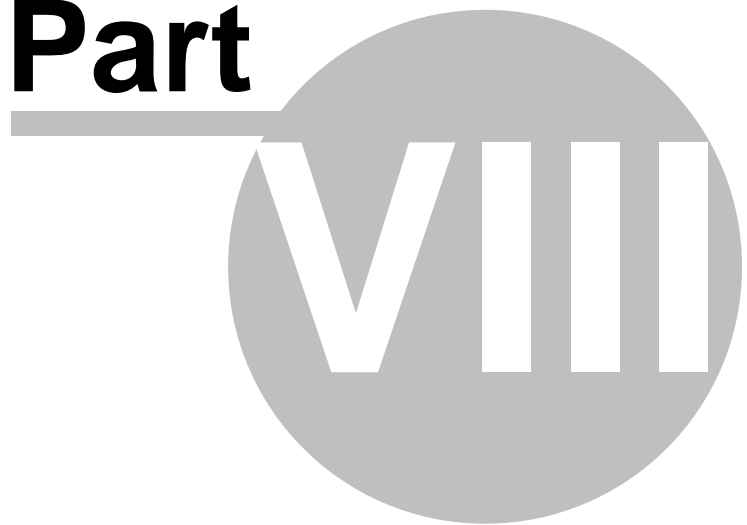
7.3 Sensor Line Fault Check Setup

When line fault are supervised, they are constantly monitored for communication or shorts caused by faulty wiring or tampering. When an fault is detected, a trouble report is sent to the operator. Systems are available with and without supervised alarm inputs.

1. Press * **6 3 #** to enter Duress. STATUS LED: **NO** LED blinks
2. Press **1** followed by the **#** key to enable line fault or press **any other key to disable**. **OK** LED will lit with confirming beep
3. Press * to exit.

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8 ALARM SETUP

There are 2 sensor inputs and 1 relays on ISC-101. Either one or two relays are used for the lock, depending on the configuration, and the spare relays can be used for annunciating alarms or other form of control.

There is no programming function for alarms what you program is what happens when a specific alarm occurs. There are two things that can happen as a result of an alarm:

- an alarm may result in a message to the speaker (Buzzer).
- an alarm may also cause a relay to come on (Relay).

ISC-101 has an output to activate a sounder but also equipped with relays that can be controlled from a command station, by some type of system activity. These sensor inputs & relays can allow you to perform many functions such as motion sensor or as a means of interfacing with a home automation system. Only the internal sensors will be activated unless other sensors are connected and configured in Sensor Setup. Relay must be connected to use the alarm.

NOTE :

Figure 2

List of the output function. Select from the following list

1. Buzzer and Relay

Buzzer and Relay will be activated once the alarm is triggered.

2. Buzzer Only

Buzzer will be activated once the alarm is triggered. No relay output will be sent.

3. Relay Only

Relay will be activated once the alarm is triggered. No sound will be heard.

4. Alarm Inactive

Alarm is inactive. Event will occur and recorded even if the alarms are made inactive. To disable alarms completely, disable sensor that is supervising the activated alarm.

8.1 Alarm Type Setup1 (Intrusion)

Pre-programmed to sensor 7 (INTRUSION SENSOR).

1. Press * **7 1 #** to enter Alarm. STATUS LED: **NO** LED blinks
2. Press from **1** through **4** to select type of alarm followed by the **#** key.
3. Press * to exit Mode.

8.2 Alarm Type Setup2 (Door Force Open)

Pre-programmed to sensor 6(Door Contact Sensor).

1. Press * **7 2 #** to enter Alarm. STATUS LED: **NO** LED blinks
2. Press from **1** through **4** to select type of alarm followed by the **#** key.
3. Press * to exit Mode.

8.3 Alarm Type Setup3 (Fire)

Pre-programmed to sensor 4(Fire Alarm Sensor).

1. Press * **7 3 #** to enter Alarm. STATUS LED: **NO** LED blinks
2. Press from **1** through **4** to select type of alarm followed by the **#** key.
3. Press **1** followed by the **#** key to open door while in fire.
Press **2** followed by the **#** key to close door while in fire.
4. Press * to exit Mode.

8.4 Alarm Type Setup4 (Duress)

Pre-programmed to Duress.

1. Press * **7 4 #** to enter Alarm. STATUS LED: **NO** LED blinks
2. Press from **1** through **4** to select type of alarm followed by the **#** key.
3. Press **1** followed by the **#** key to open door while in duress.
Press **2** followed by the **#** key to close door while in duress.
4. Press * to exit Mode.

8.5 Alarm Type Setup5 (Line Trouble)

Managed by Sensor Line Fault Check Setup.

1. Press * **7 5 #** to enter Alarm. STATUS LED: **NO** LED blinks
2. Press from **1** through **4** to select type of alarm followed by the **#** key.
3. Press * to exit Mode.

8.6 Alarm Type Setup6 (Door Held)

Pre-programmed to sensor 5 (LOCK SENSOR).

1. Press * **7 6 #** to enter Alarm. STATUS LED: **NO** LED blinks
2. Press from **1** through **4** to select type of alarm followed by the **#** key.
3. Press * to exit Mode.

8.7 Alarm Time Setup

Duration of alarm time. Alarm time will be applied to all alarms.

1. Press * **7 7 #** to enter Alarm. STATUS LED: **NO** LED blinks
2. Press from **1** through **4** to select type of alarm followed by the **#** key.
3. Press * to exit Mode.

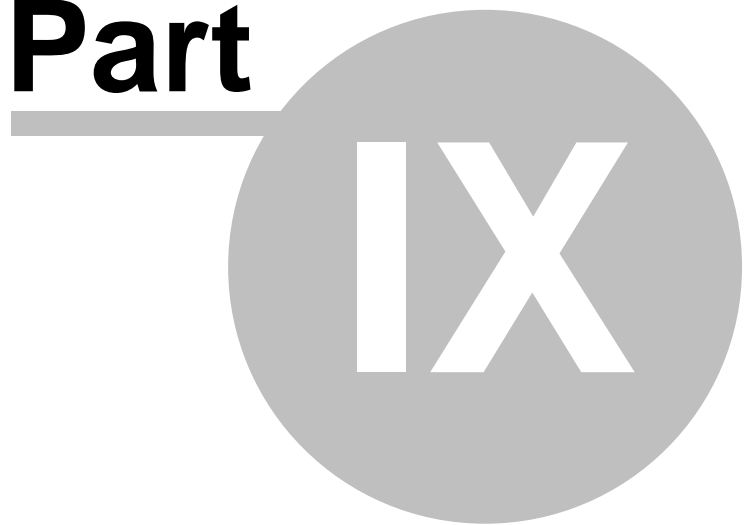
8.8 Alarm Off

Disabling Alarm. Event will occur and recorded even if the alarms are made inactive. To disable alarms completely, disable sensor that is supervising the activated alarm.

1. Press * **7 8 #** to enter Alarm. STATUS LED: **NO** LED blinks
2. Press from **1** through **4** to select type of alarm followed by the **#** key.
3. Press * to exit Mode.

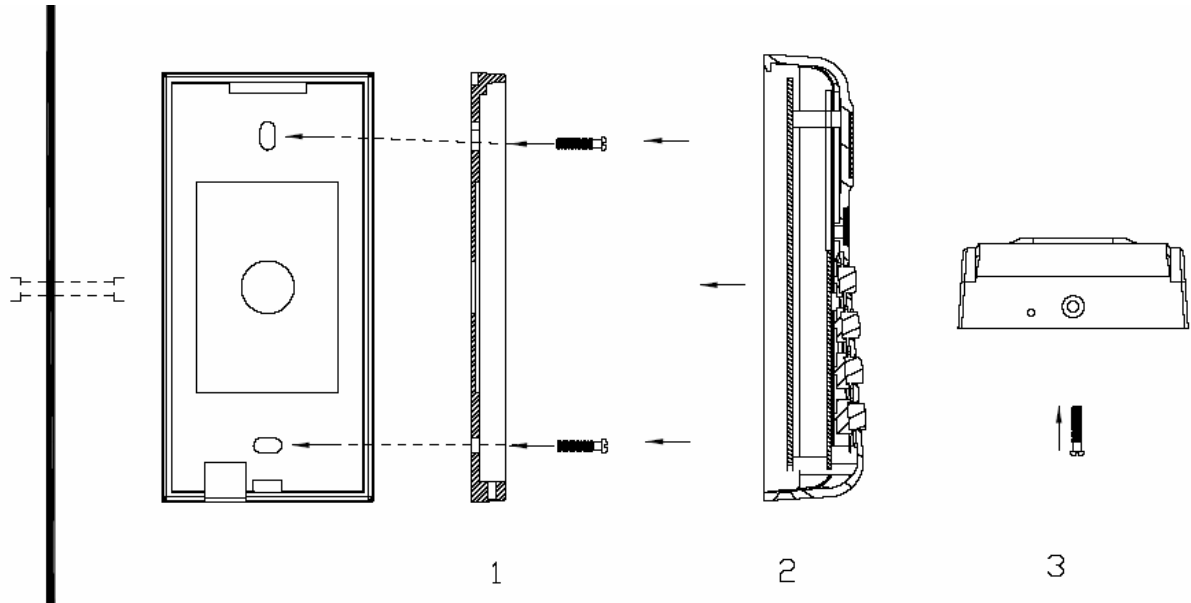
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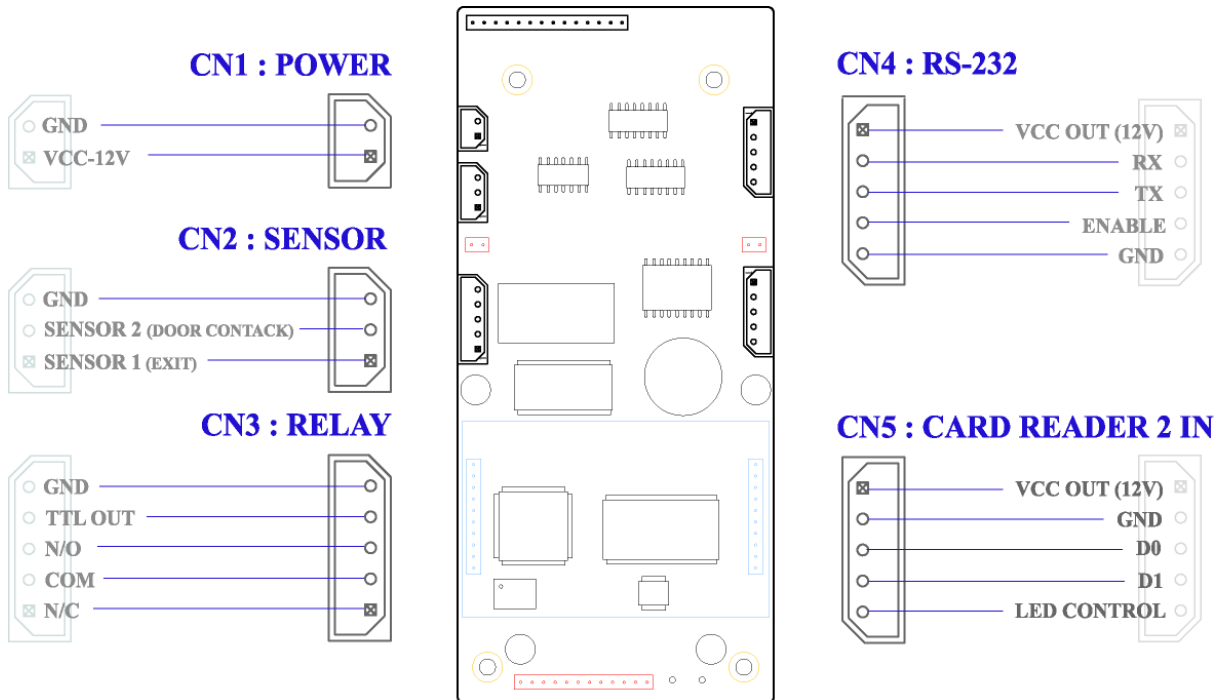


9 INSTALLATION

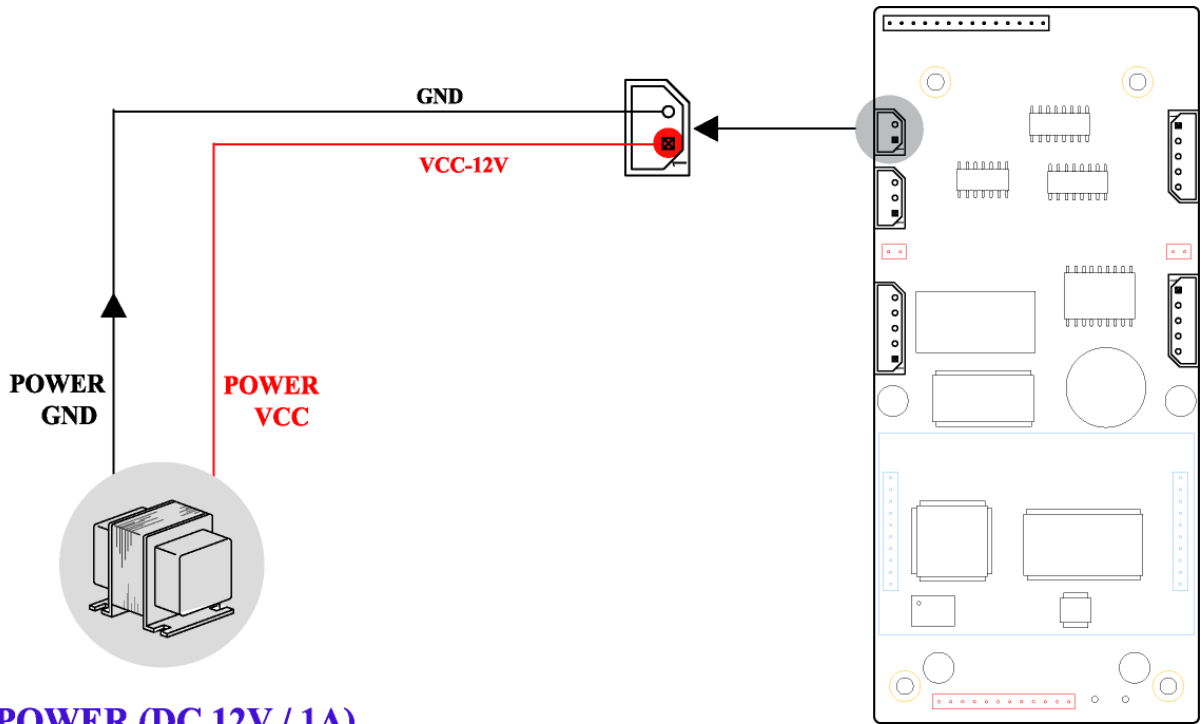
9.1 Mounting



9.2 ISC-101 CONNECTORS

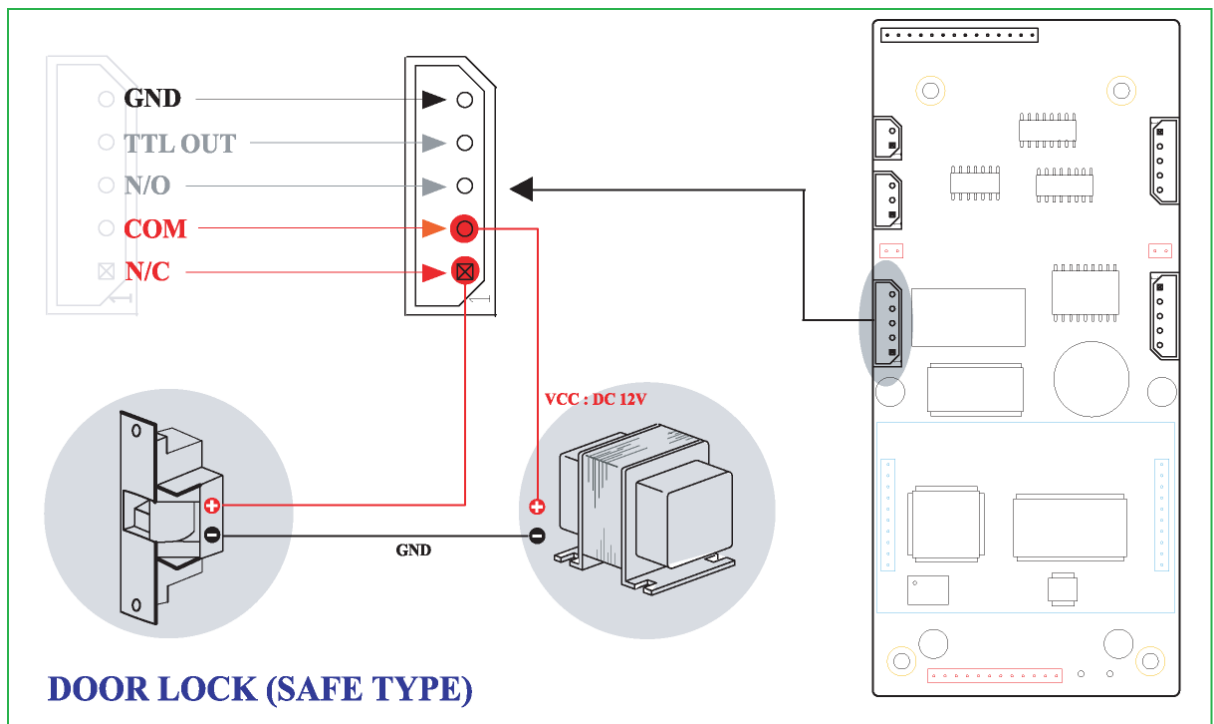


9.3 POWER CONNECTION



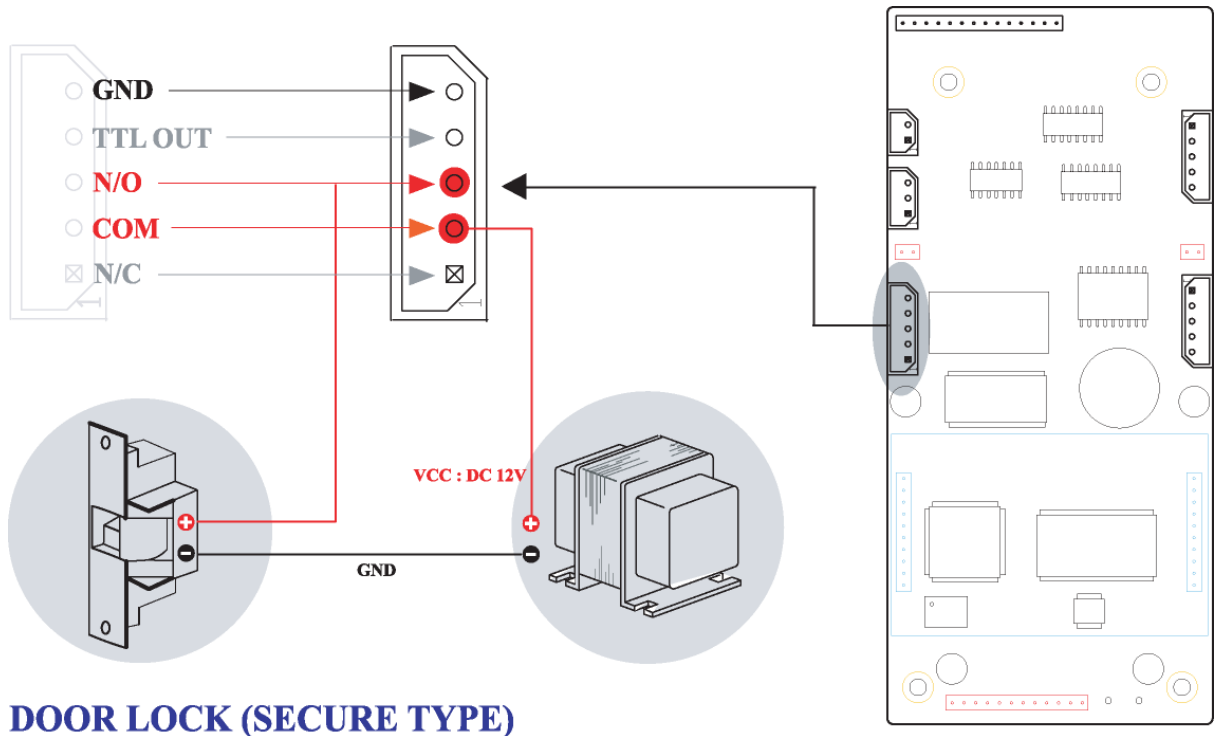
POWER (DC 12V / 1A)

9.4 DOOR LOCK CONNECTION1

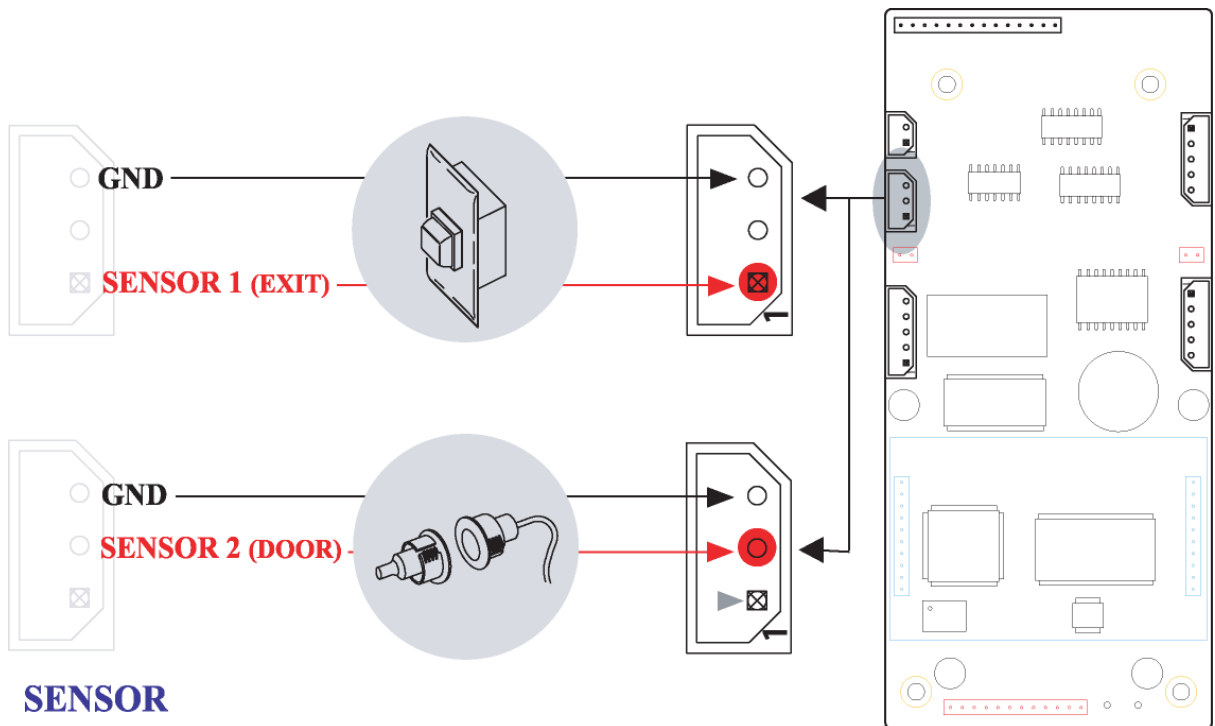


DOOR LOCK (SAFE TYPE)

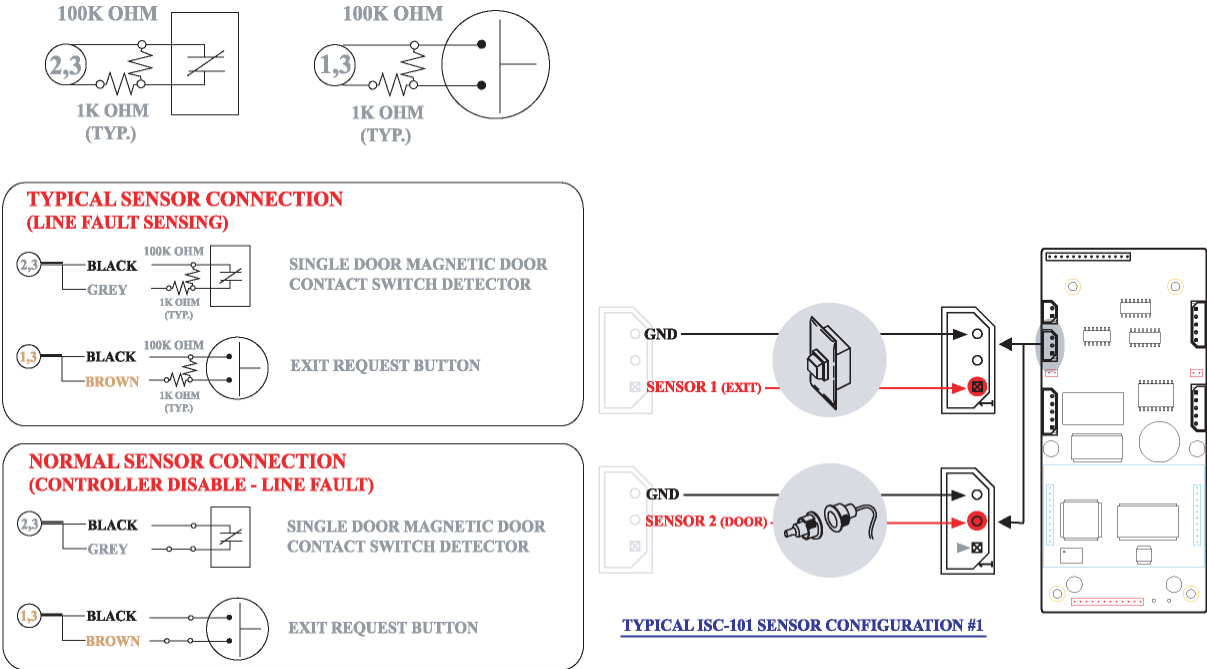
9.5 DOOR LOCK CONNECTION2



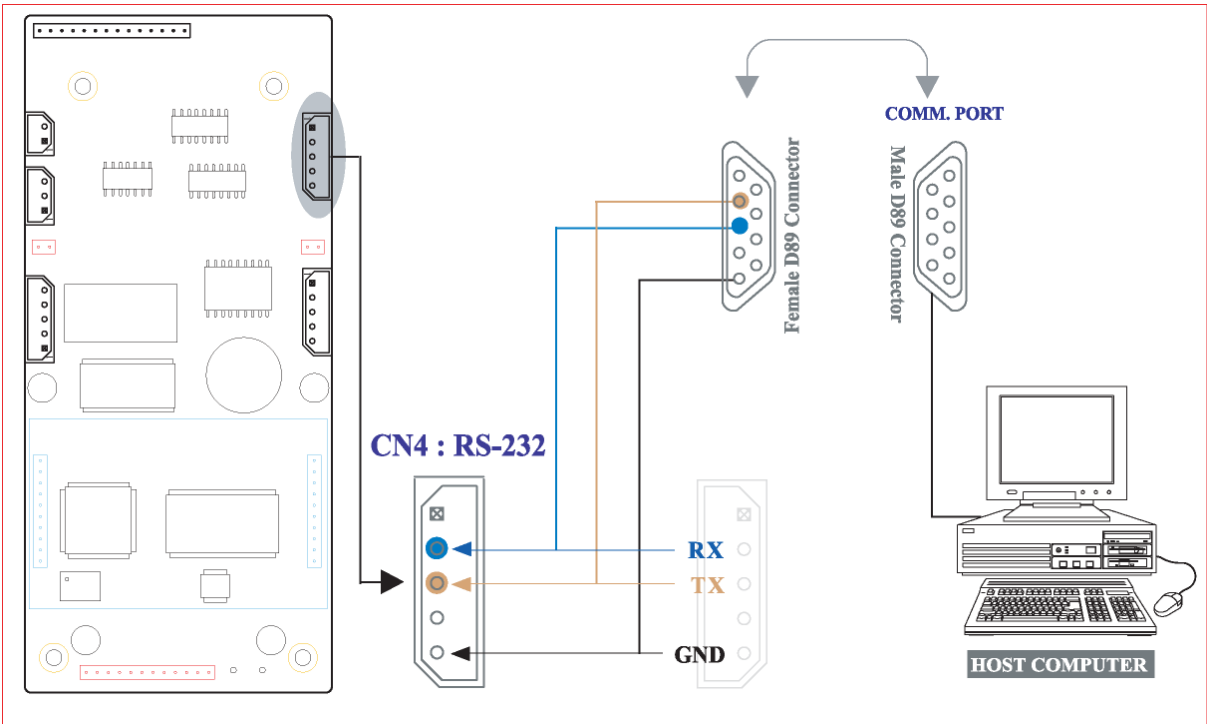
9.6 SENSOR CONNECTION



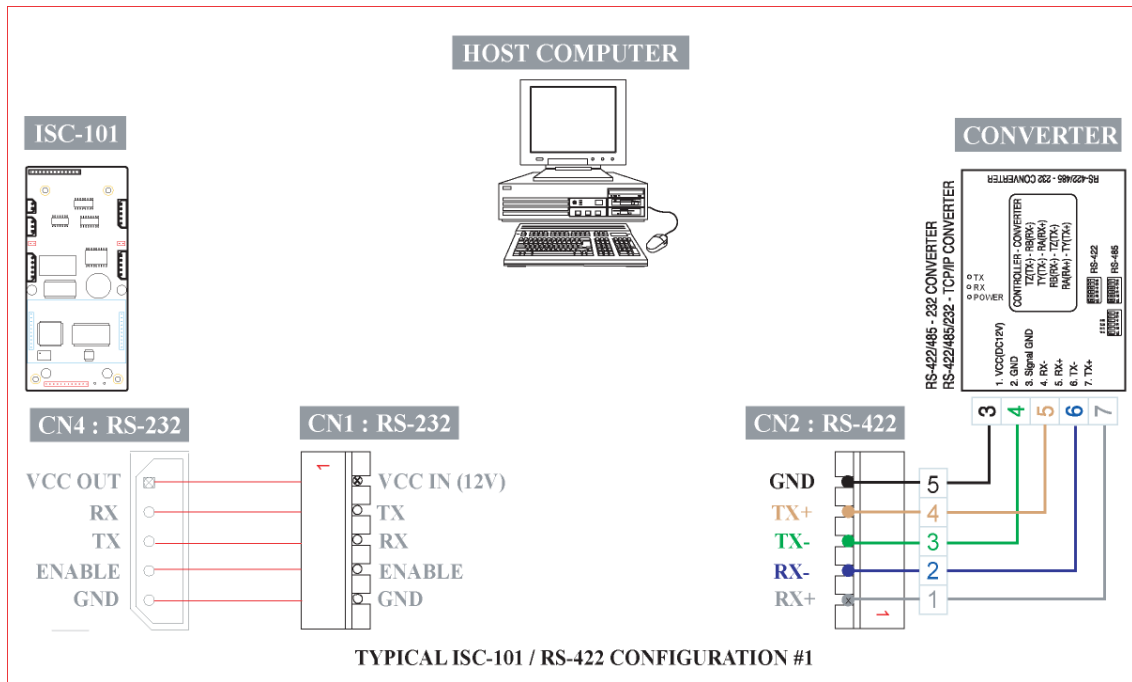
9.7 SENSOR CONNECTION



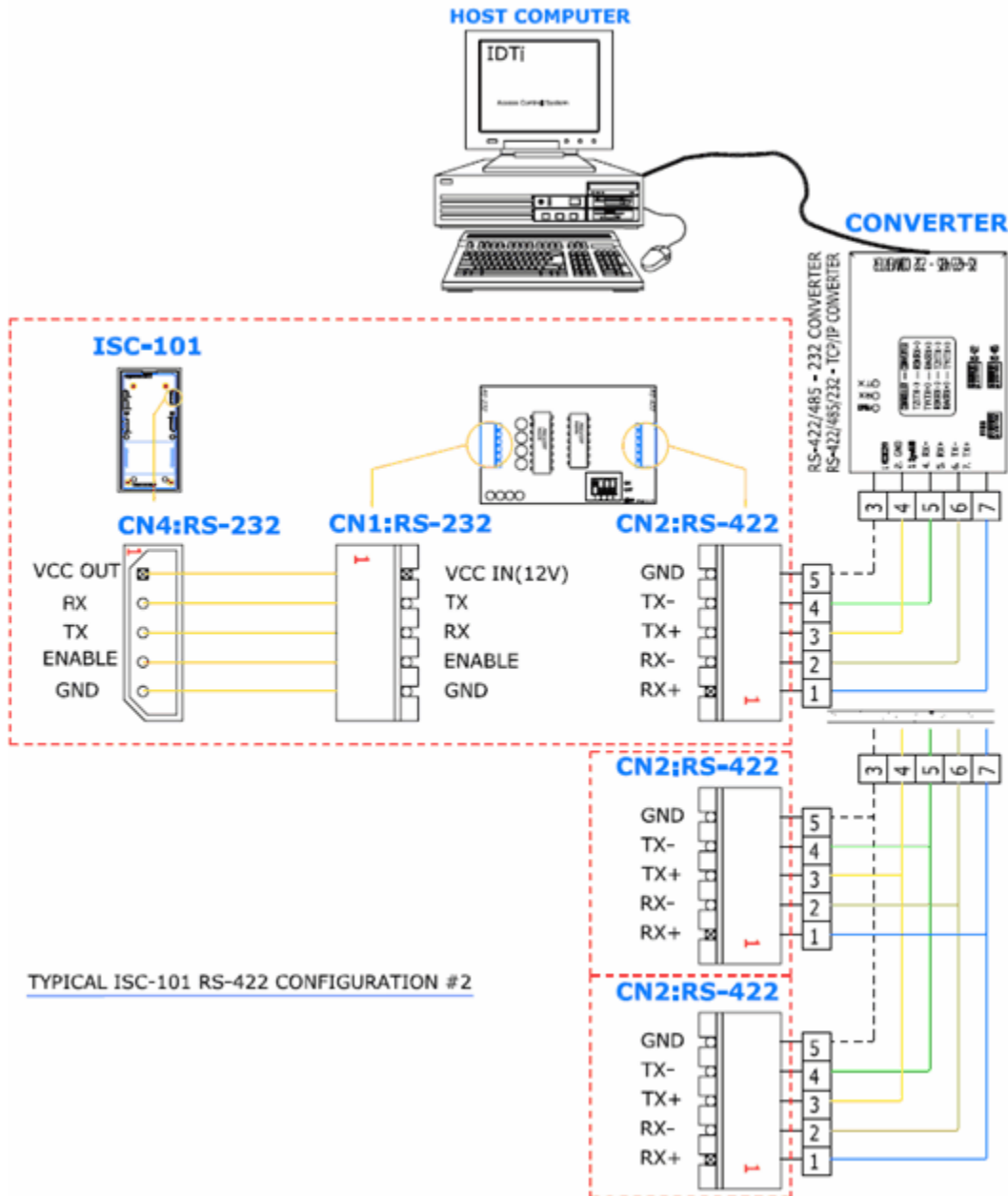
9.8 RS232 CONNECTION



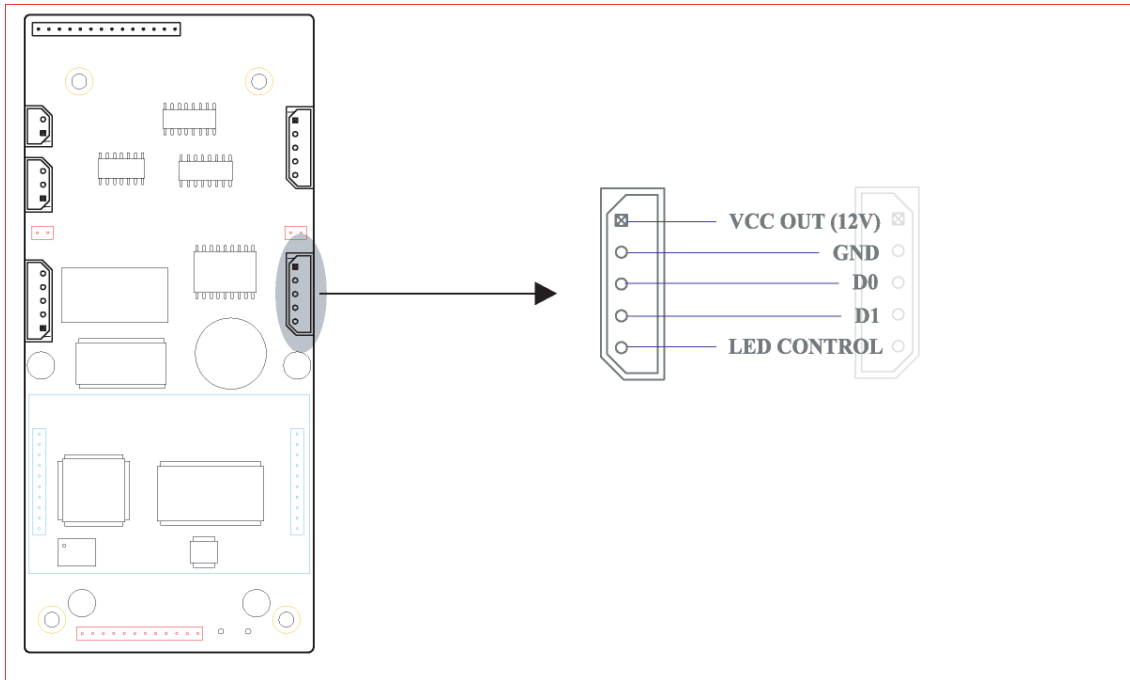
9.9 RS422 CONNECTION



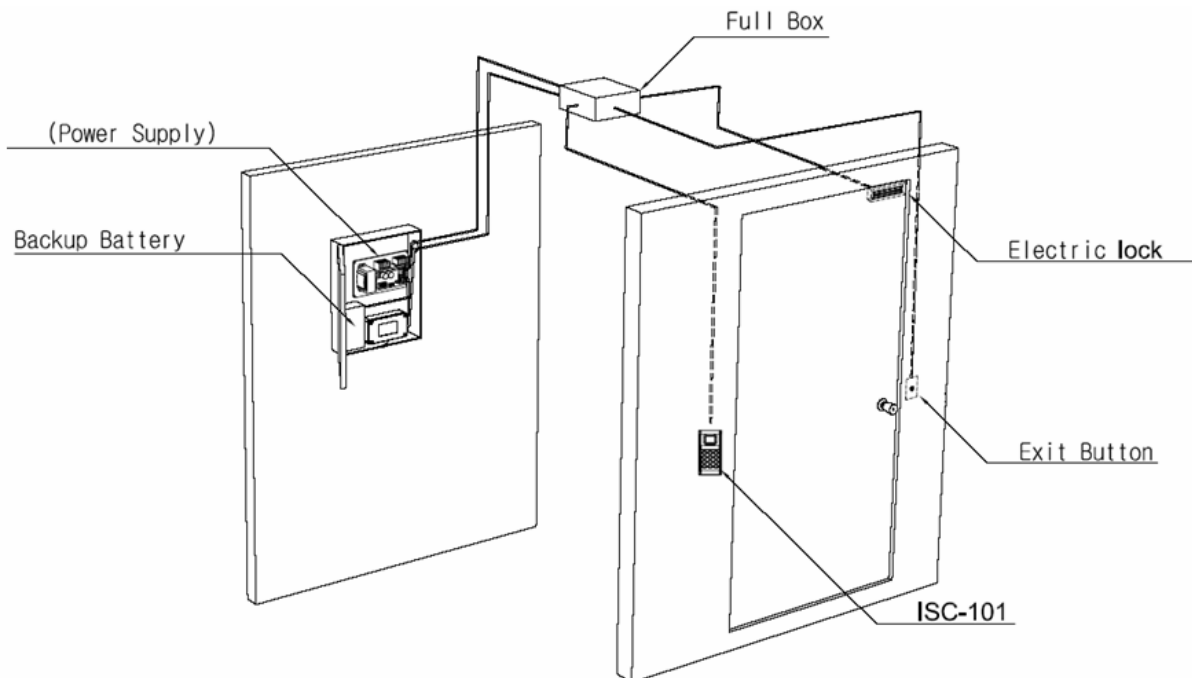
9.10 RS422 CONNECTION



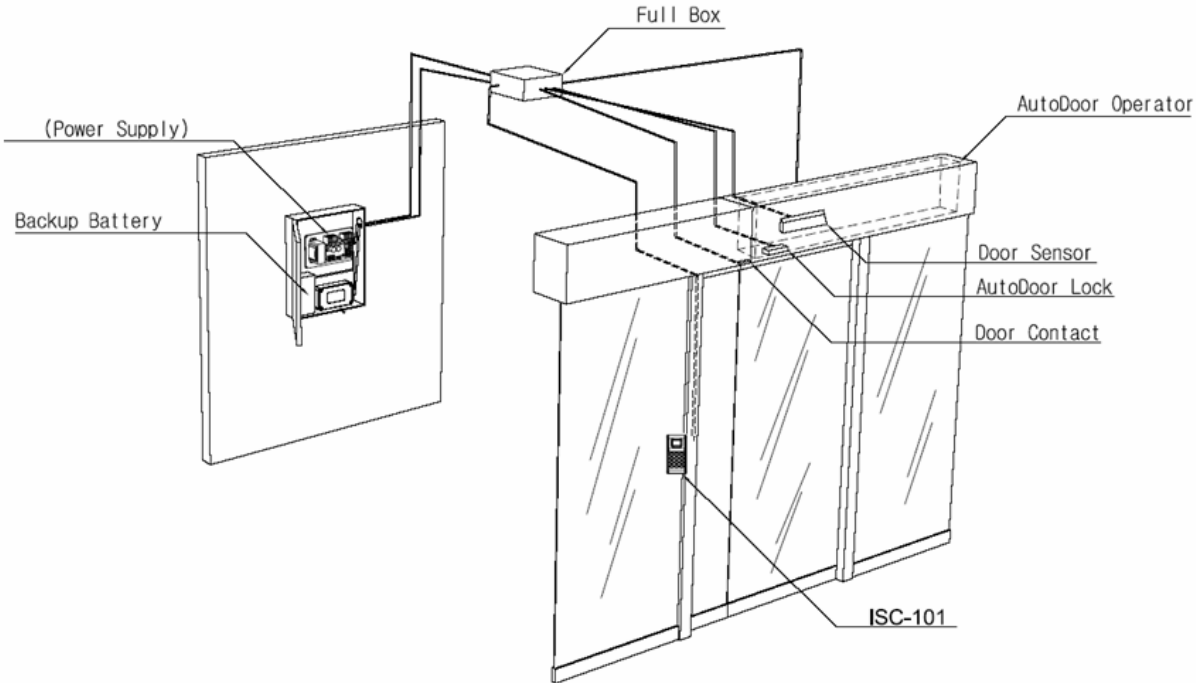
9.11 EXTERNAL CARD READER



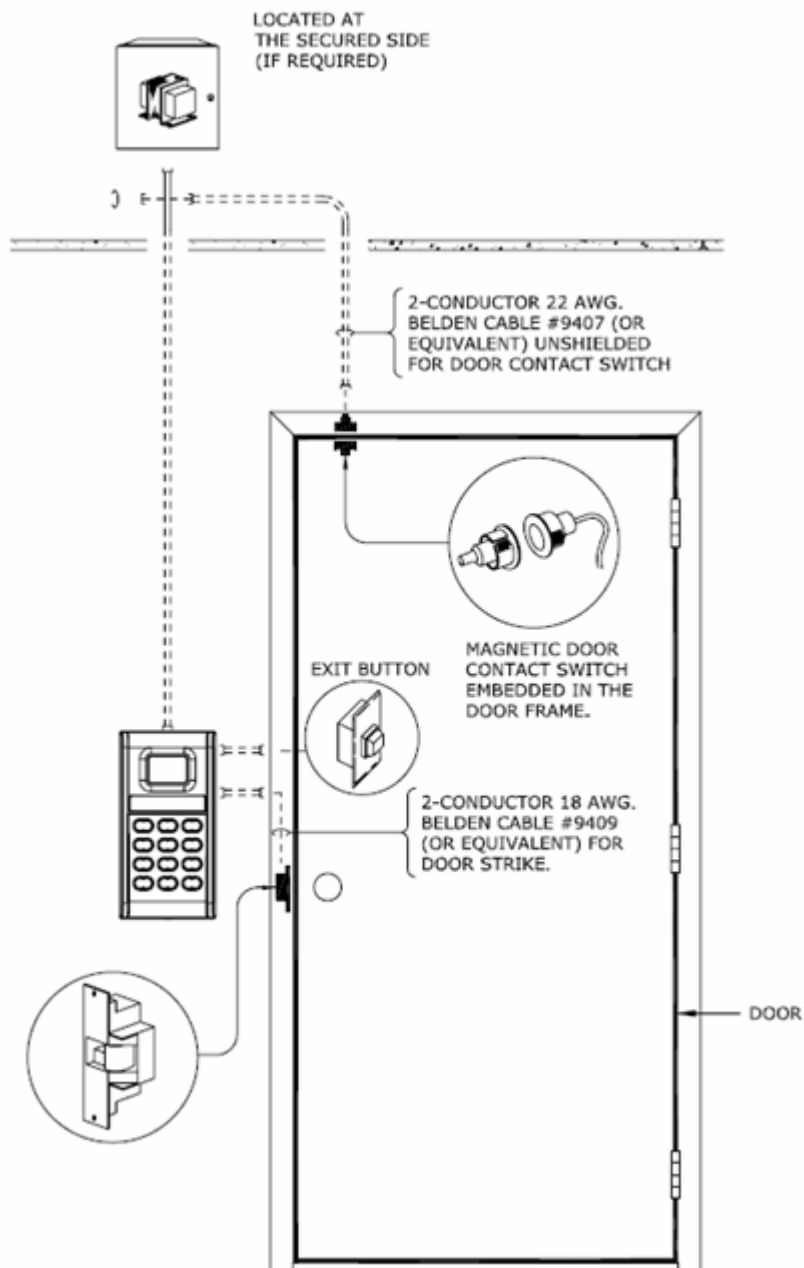
9.12 ELECTRICAL LOCK INSTALLATION



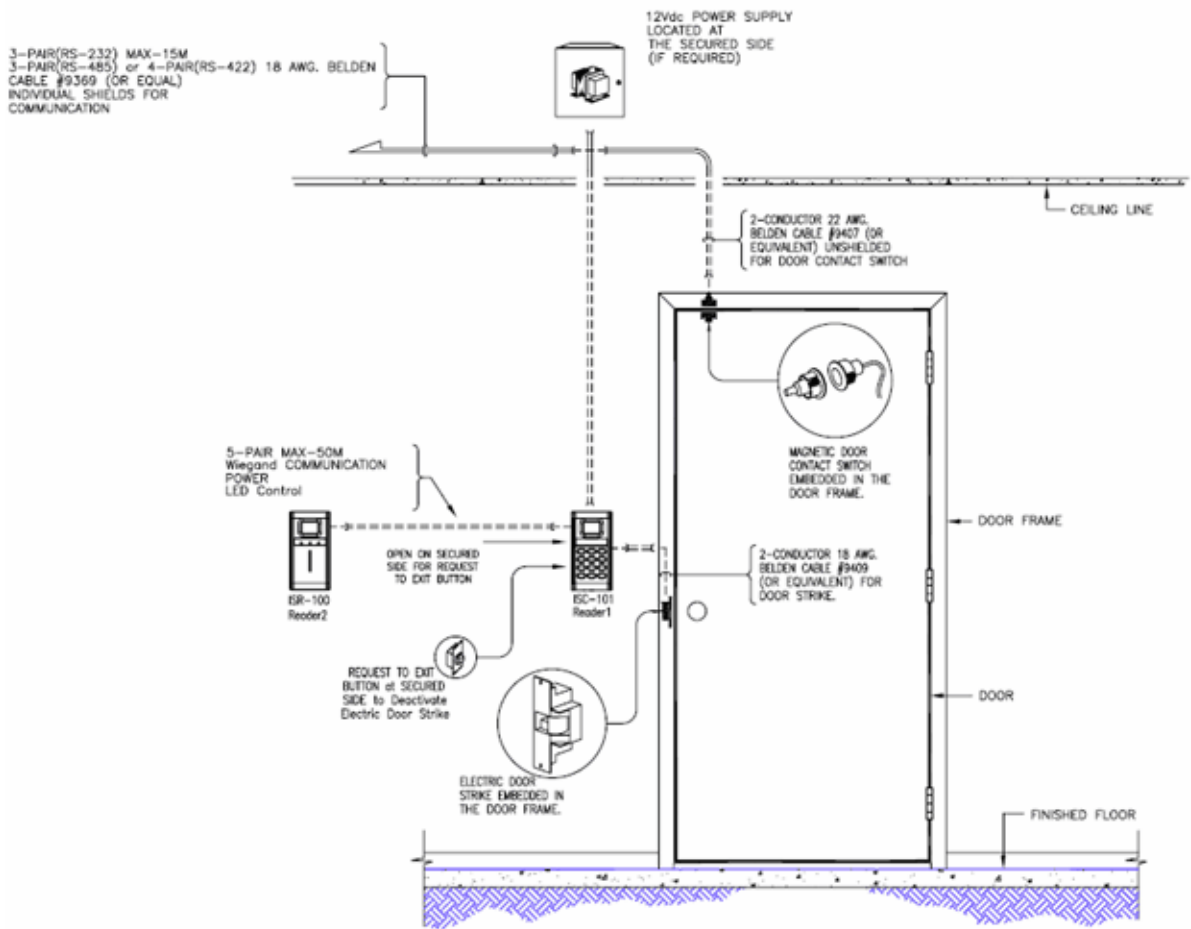
9.13 AUTOMATIC DOOR INSTALLATION



9.14 LOCK, EXIT BUTTON DOOR CONTACT S.W INSTALLATION



9.15 READER CONFIGURATION



TYPICAL ISC-101 AND ISR-100 READER DOOR CONFIGURATION #1