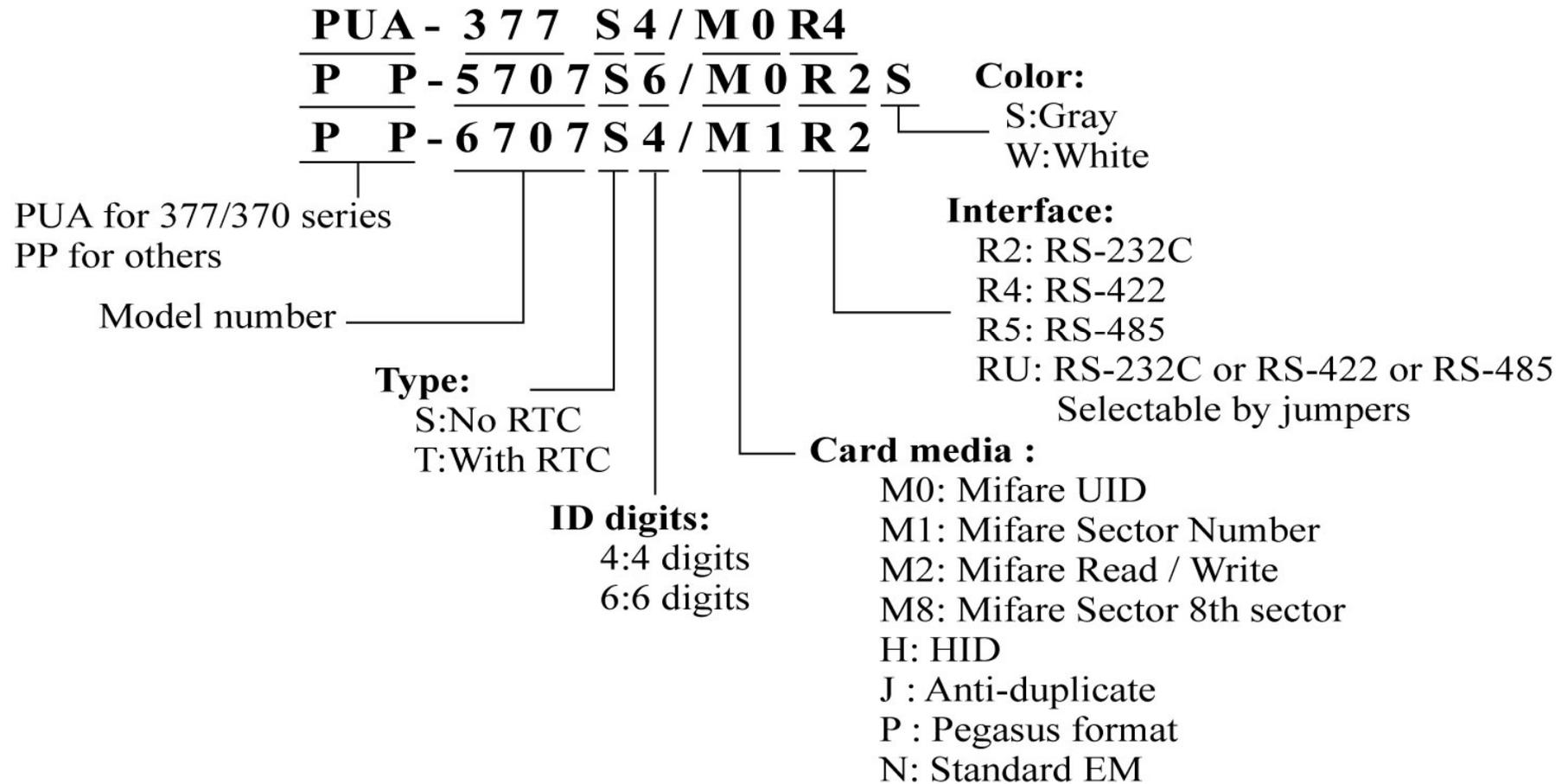


1. System features - summary

1. Reads 125kHz EM type proximity or 13.56MHz Mifare cards. Wiegand port is capable of reading Wiegand 26 bit readers. (New versions with 26/34 bits)
2. Three selectable modes of operation: (a) card only (b) card with door code (c) card or door code for 377/5707/6730 series (d) free access mode.(optional)
3. The access map and system parameters are stored in non-volatile memory. The stored data can be retained for 10 years without external power supply.
4. The basic capacity is 9999cards for 4 digits mode with 10 definable facility. (2000 cards for 6 digits version models is for other selection)
5. The door released time can be freely programmed from 1 to 98 seconds.
6. Exit by pushing button or by out reader.
7. CMOS version CPU for low power consumption and silent operation. Watch-dog monitoring function prevents system disorders.
8. Featuring ABS case and making it easy to install and suitable for indoor use. And 6730/6700/5707/5700 are suitable for indoor or outdoor use. 377 /5707 /87series with plastic keypad, 370 series is keypad less. Also most commands are common to all Pegasus products.
9. Please set the waterproof rubber on the backside to avoid oxidation of devices. (5707/5878/5700/87 series)

2. How to order :



3. Instruction for Card Reading

1. Present the card parallel to the reader plate within 5~15cm.
2. If the left LED lights up green, the card reading is complete.

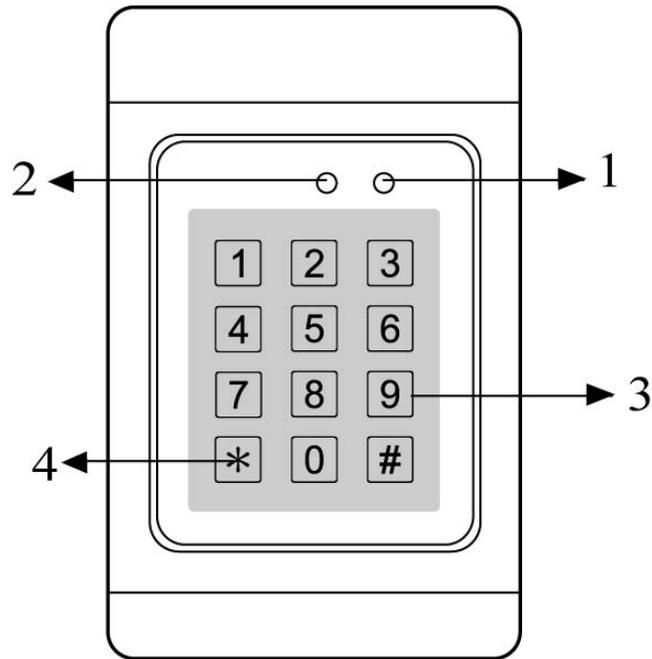
If the left LED lights up red, repeat above instructions, and check if the card has the right access privileges. Otherwise, use the code 5555 to check the 4 digits mode legal status.

Remark:

The PUA-370/PUN-370 /5700/6700 are keypadless type, all of parameters and function codes shall be download through PC computer or PC-1037 multi-doors controller.

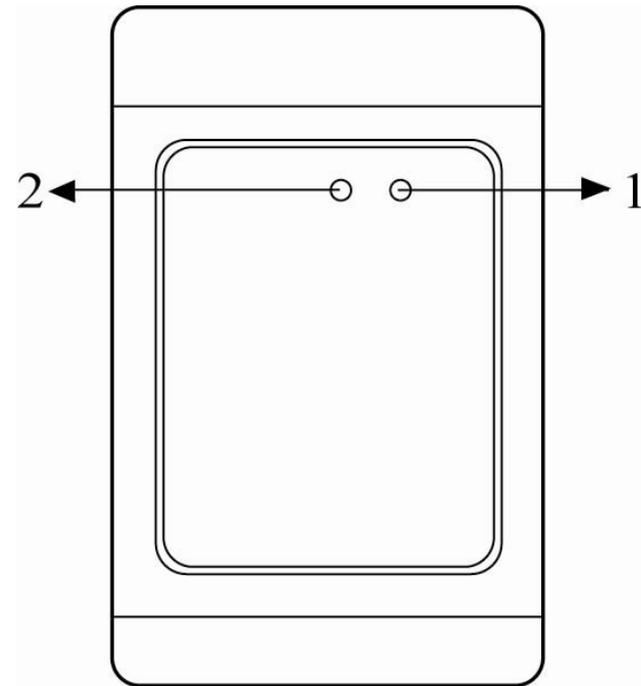
A. Front Panel

A . Front Panel for 377/378



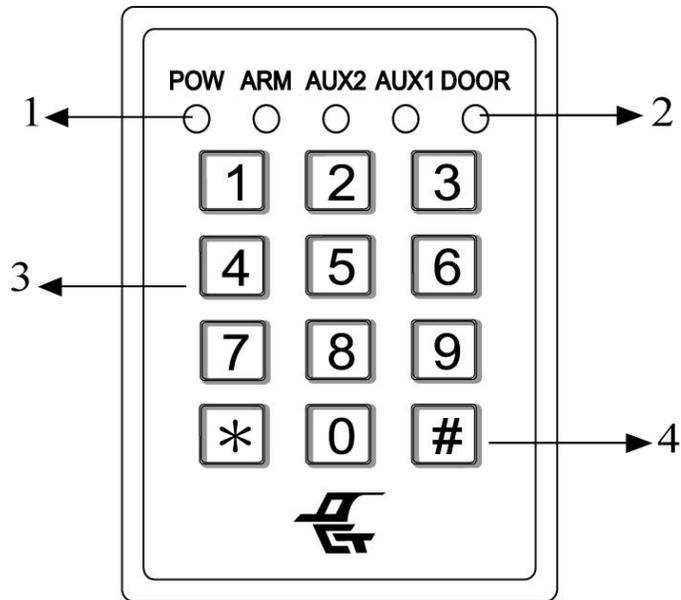
1. Power on lamp
2. Bicolor LED for access authorization/deny or programming status indication etc...
3. Keypad
4. Reset key

A-1 Front Panel for 370



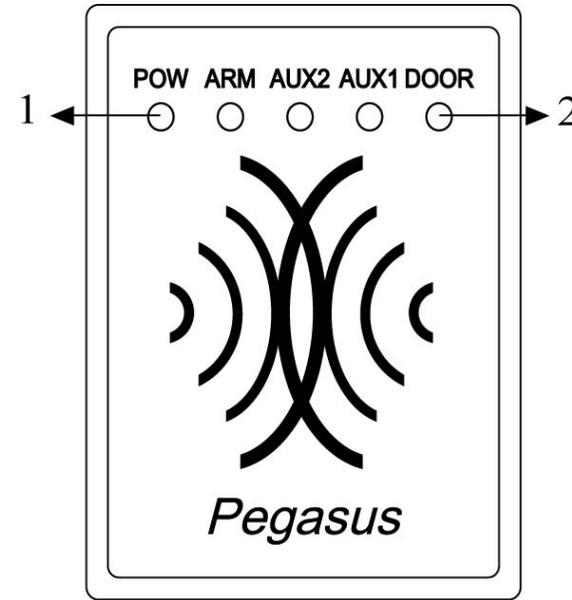
1. Power on lamp
2. Bicolor LED for access authorization/deny or programming status indication ...etc.

B . Front Panel for 5707/5878



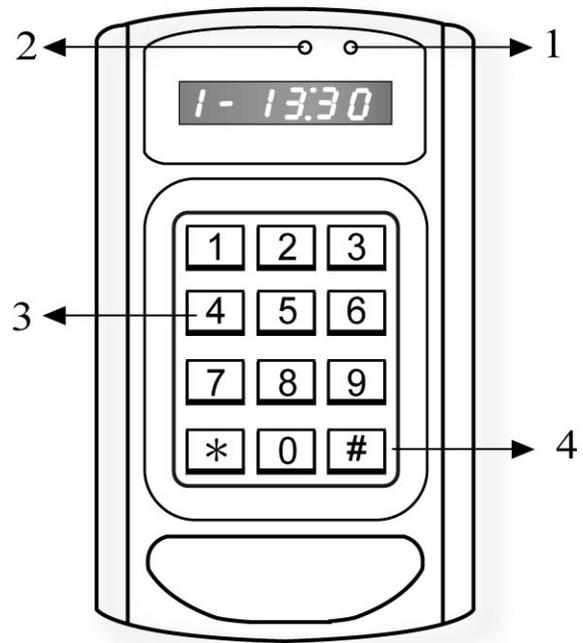
1. Power on lamp
2. Bicolor LED for access authorization/ deny or programming status indication etc...
3. Keypad
4. Reset key

B-1 . Front Panel for 5700



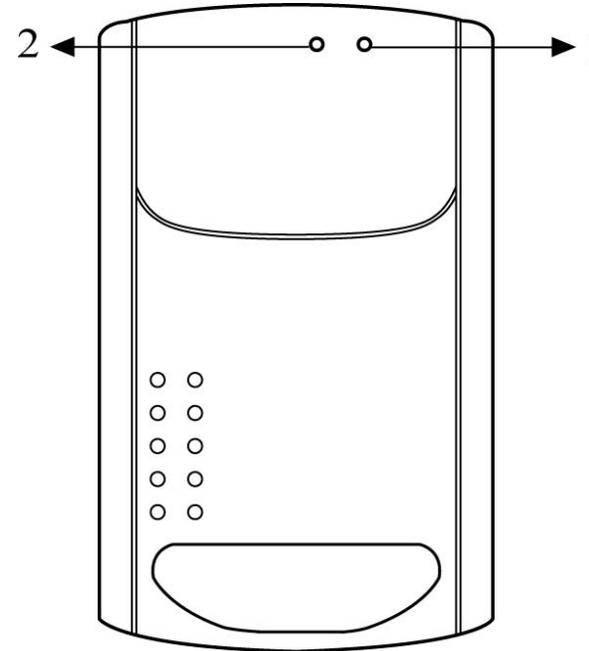
1. Power on lamp
2. Bicolor LED for access authorization / deny or programming status indication etc...

C . Front Panel for 6730 6830



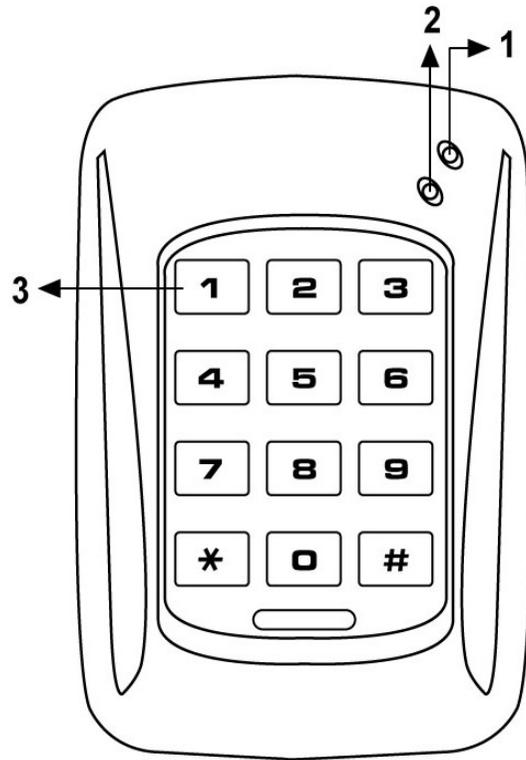
1. Power on lamp
2. Bicolor LED for access authorization/deny or programming status indication etc...
3. Keypad
4. Reset key

C-1 . Front Panel for 6700



1. Power on lamp
2. Bicolor LED for access authorization/deny or programming status indication etc...

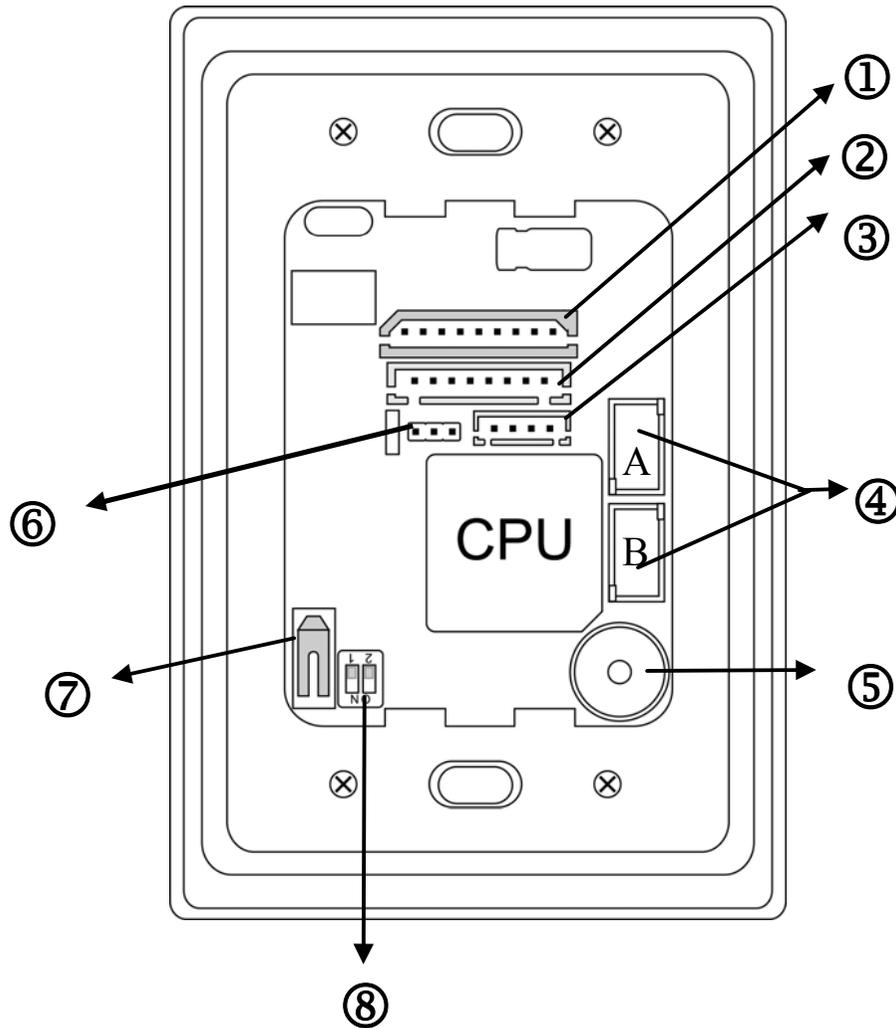
D . Front Panel for 87



1. Power on lamp
2. Bicolor LED for access authorization/
deny or programming status indication
etc...
3. Keypad

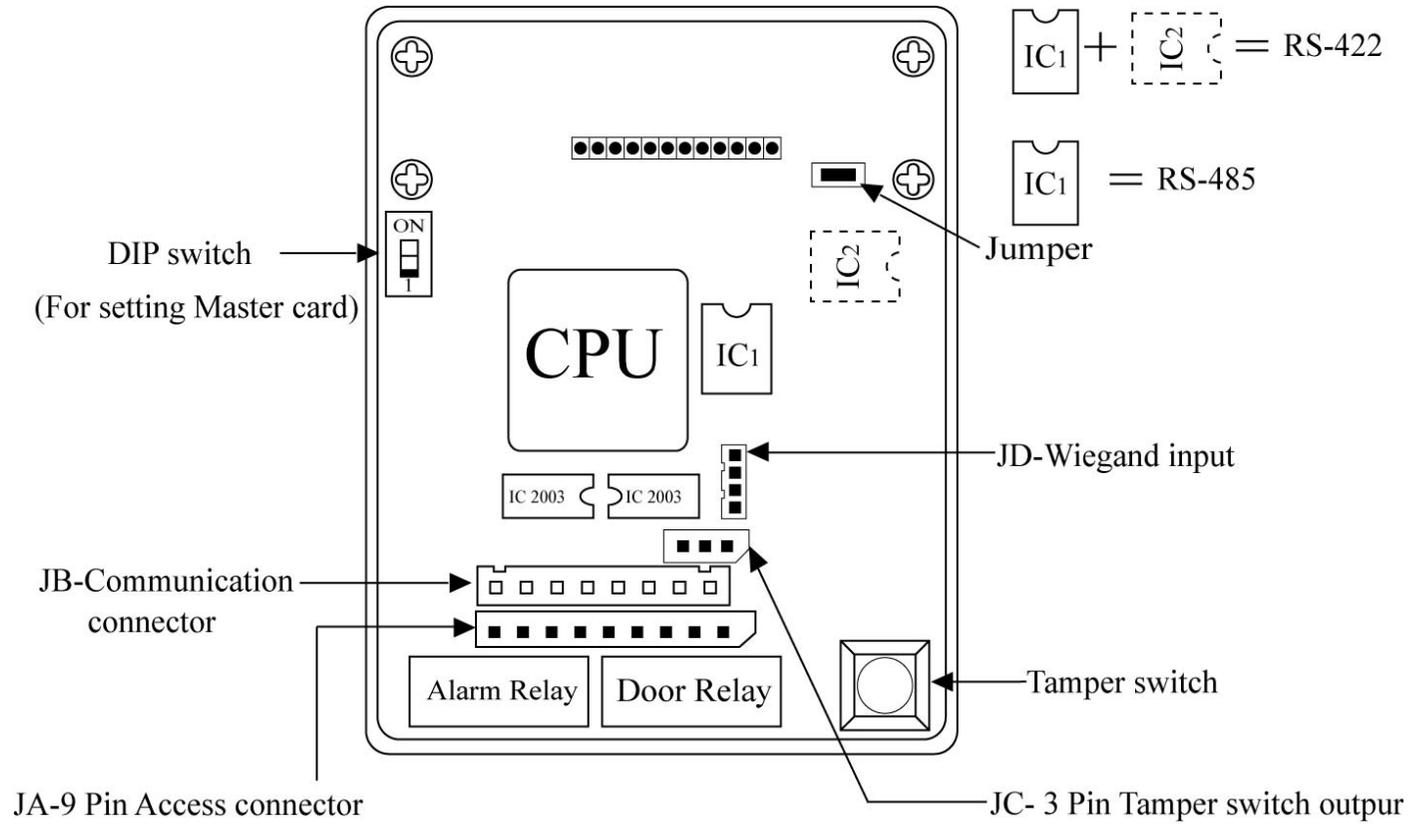
B. Bottom View

A.377/378/370 series

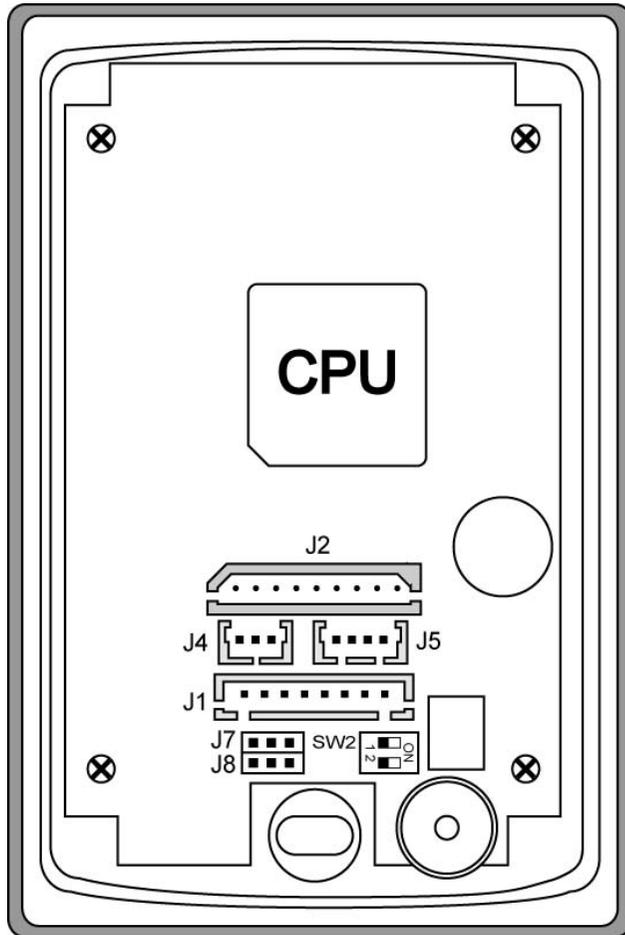


- ① JA 9 pins blue for access connector
- ② JB 8 pins white for communication connector
- ③ JD white 4 pin for extra proximity port
- ④ Relays(A)for door
Relays(B)for alarm Buzzer
- ⑤ Buzzer
- ⑥ JC tamper switch output
- ⑦ Tamper switch
- ⑧ DIP switch for master card programming

B.5707/5878/5700 series



C.6730/6878/6707/6700 series



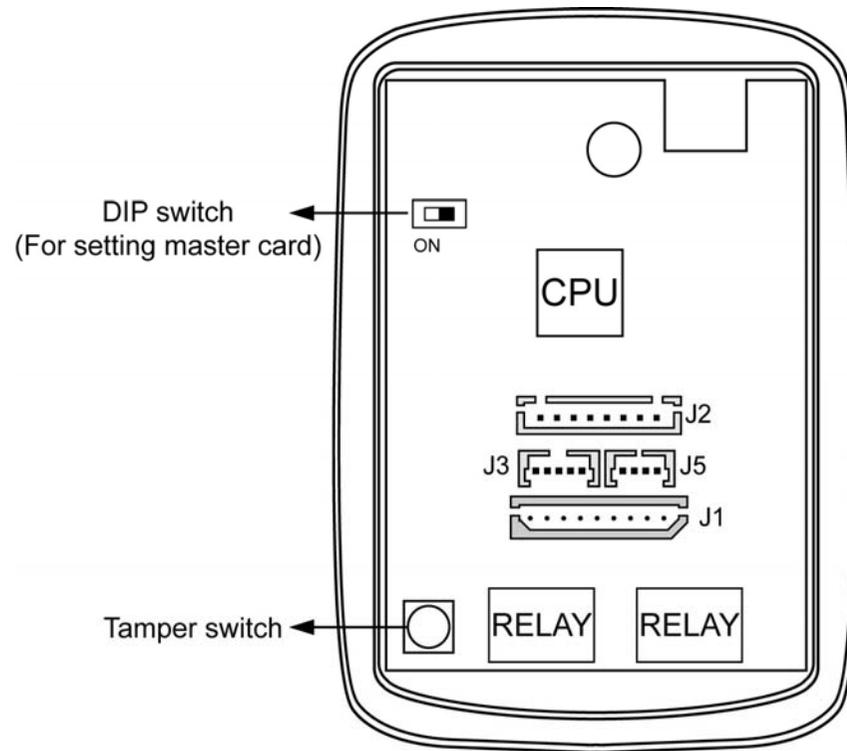
RS-232 → J7
J8

RS-422 → J7
J8

RS-485 → J7
J8

J1-8 pins (white) for communication connector.
J2-9 pins (blue) for access connector.
J4-3 pins (white) for tamper switch output.
J5-4 pins (white) for External Weigand
SW2 -Dip switch for master card programming

D.87 series



J1-9 pins (blue) for access connector.

J2-8 pins (white) for communication connector.

J3-5 pins (white) for tamper switch output and bell

J5-4 pins (white) for External Weigand

4. Master Card & Project number loading

Please turn the rear and let DIP(1), DIP(2) switches up to "ON". Present the proximity card close to the reader. The red/green light will flash to show the master card setup is O.K. Turn the DIP(1) ,DIP(2)switches down to "OFF". The master card can now be used to program various functions once installation is completed. Also, the project number in master card is loaded into the memory for project number to be compared when 2801 code is enabled. For most versions, 10 master cards with different project number(differentiated by last digits) could be loaded.

5. System Factory Defaults

Factory defaults are initiated by entering code "0800". The system parameters can be modified to user's requirements by entering the following function codes described in paragraph 7.

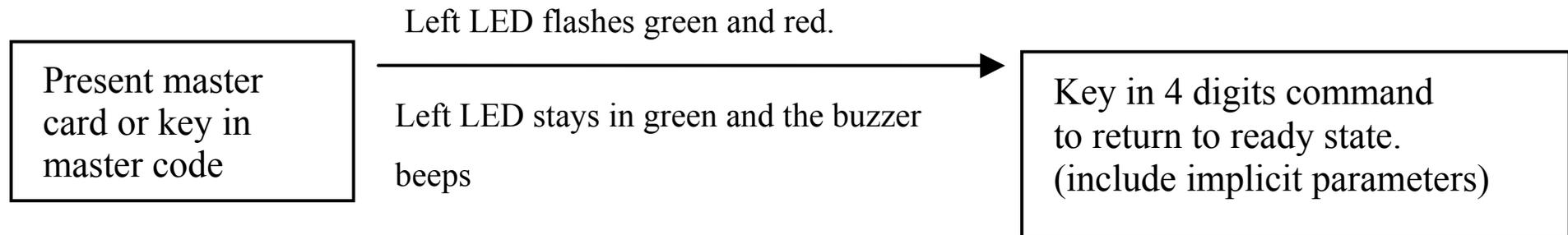
Factory defaulted status :

- (1) Door monitoring : (1100) Do not monitor the door state**
- (2) Safety zone state : (1200) The safety zone monitoring is disabled**
- (3) Door release period : (2102) Released by 2 seconds**
- (4) Alarm output period : (2206) Continued for 6 seconds**
- (5) Door monitor period : (2310) Maximum allowed time for door to remain open after granted access**
- (6) Trial errors : (2403) Maximum access attempts allowed**
- (7) Door Code digits : (4804) The door code is 4 digits if used**

6. Programming Procedures

At first, please present master card to the reader or press "*" key and then the 6 digits master code for entering into programming state. Then you may program any of the function codes as described in section 6.

A. Single section command: (4 digits command)



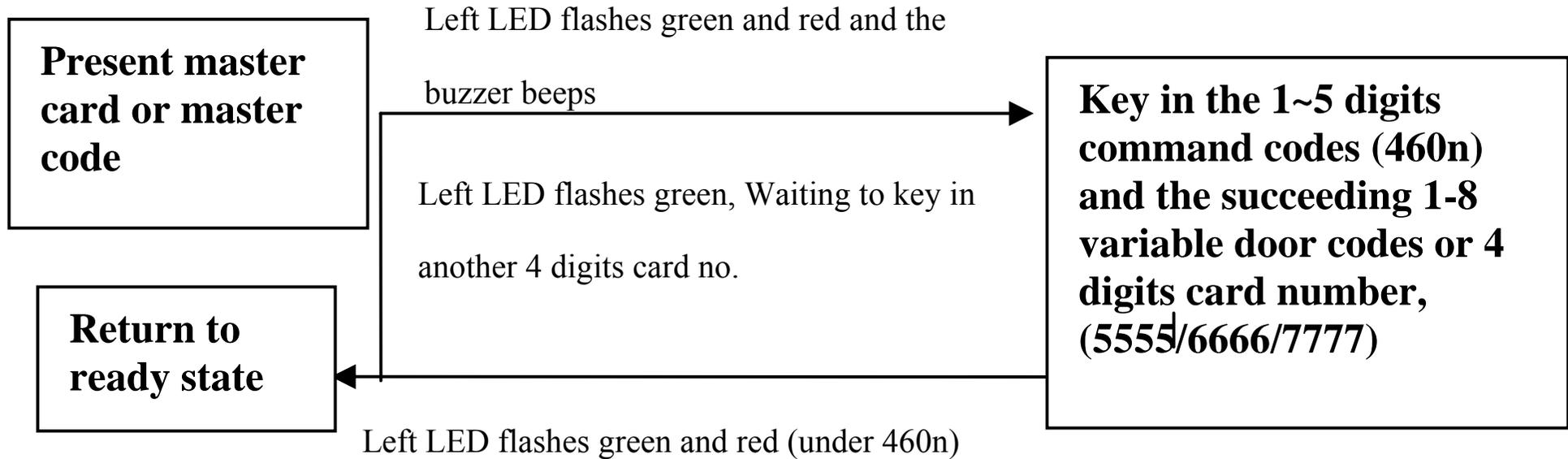
Commands examples:

Group 1 commands : 1200/1, etc.

Group 2 commands : 21tt, 22tt-2801, etc.

Group 3 commands : 3100, 3200, etc.

B. Double sections command: (8 digits commands) Programming



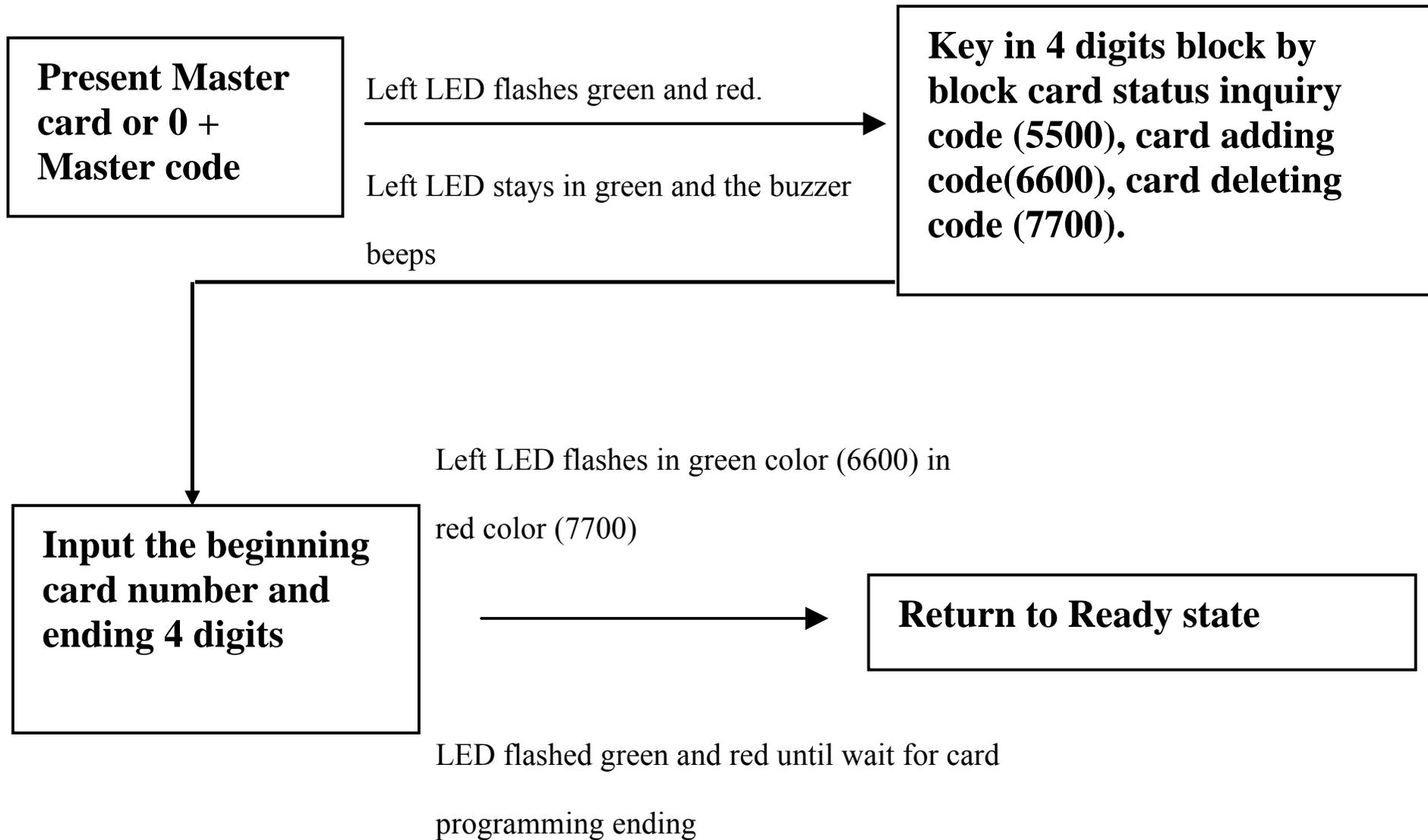
Example Commands:

4601 dddddddd key in 8 digits door code for group 1, if 4808 is programmed or starting 4 digits

5555 cccc inquiry card status of 4 digits card number cccc

4609 kkkkkk key in 6 digits master pin

C. Triple sections command: (Totally 12 digits command, 4 digits x 3)



7. Programming Instructions:

◦ GROUP 0 System configuration

- 0000** Clear all.(versions with 24LC256 memory)
 - 0001** To delete the card number from 0001 to 2999 from 4 digits mode.
 - 0002** To delete the card number 3000 to 6999 for 4 digits mode.
 - 0003** To delete the card number from 7,000 to 9,999 for 4 digits mode.
 - 0007** Clear all master card.(versions with 24LC256 memory)
 - 0800** Initializes the system to the default status.
- } (Versions with 93C66 memory)

◦ GROUP 1 INPUT (input sensors enable or disable)

- 1101** Enables door sensor input.
- 1100** Disables door sensor input.
- 1201** Safety zone sensor input enabled.
- 1200** Safety zone sensor input disabled.
- 1221** **000W** Weekday setting. Where "W" is the weekdays from 1~7 for Monday to Sunday.(By 6730/6830 series LED Time Display)
Ex: Monday : 0001
 Tuesday : 0002
 ⋮
 Sunday : 0007

- **1222** **HH mm** Time Setting where HHmm is the Hour and minute in 24 hours mode.
 Ex: 10:20am : 1020(By 6730/6830 series LED Time Display)
- 1300** If 1201 is installed and the door is opened by programmed code or card, it can re-close or not.
- ***1301** If 1201 is installed and the door is opened legally, door must be manually closed.
 (E) (F) pin of white connector are converted from alarm. or card, it can re-close or not.
- ***1331** Calendar year setting is followed by YYYY
 Ex: Year 2003 : 2003 (By 6730/6830 series LED Time Display)
- ***1332** MM DD Calendar month and date setting.
 Ex: Sep. 3 : 0903 (By 6730/6830 series LED Time Display)
 " ■ " for version with Real time clock

◦ **GROUP 2 Output time period / counts configuring**

- 21 tt** Configures door strike/shunt output timer.
tt is the digit timer in seconds (00-98).
- 22 tt** Configures 2 digits alarm output timer (00-98).
2200 → Alarm output will be inhibited.
2299 → Alarm output will be latched until a valid access is entered.
- 23 tt** Configures 2 digits door monitoring timer (00-99).
- 24nn** Configures trial error counts.
- *2700** Disables duress function.
- *2701** Enables duress function.(Duress code is defined by "door code \pm 1"and will trigger alarm for help as duress codes(For 4 digits ID version only)pressed)
- *2800** Does not compare project number.
- *2801** Compares project number, loaded by master card programming

◦ **GROUP 3 Operation mode**

- *3000** Access prohibited mode.
- 3200** Card only mode.
- 3300** Card and door code mode.
- 3400** Card or door code mode.
- 3601** Master card directly releases the door.
- *3800** Disable free access mode OFF (optional)
- *3801** Enable free access mode ON (optional)

◦ **GROUP 4 Adding / Deleting door codes**

460n dddddddd The **nth** (n=1-5) group door code added. The actual digit varies from 1 – 8 digits defined by command 480d.

***4609** kkkkkk To modify the system supervisor code be kkkkkk.

470n To cancel the **nth** (n=1-5) group door code input 460n.

4700 Cancels all groups of codes.

480d Define door code digits (**d** is the specified digit ranging from 1 to from

- **GROUP 6 Adding authorized card**

For 4D version:

<Block range adding mode>

6600 bbbb eeee Adds entire block of card numbers ranging from bbbb to eeee.

<Single card mode>

6666 cccc Adds single card (number cccc) as authorized card.

For 6D version:

<Learning card mode>

6333 cccccc Present master card, key in 6333 and place proximity card close to the controller. Then this card number cccccc is added as authorized card. For next card repeat this procedure. To finish, press'#'.

<Block range adding mode>

6600 bbbbbb eeeee Adds entire block of card numbers ranging from bbbbbb to eeeee.

<Single card adding mode>

6888 ccccc Present master card, key in 6888 and then key in the 6 digit ID number. For adding the card, the green light will indicate that the operation was successful. Repeat key in the next card number. To finish, press '#'.

◦ **Group 7 Deleting authorized card**

For 4D version:

<Block range adding mode>

7700 bbbb eeee Deletes entire block of card numbers ranging from bbbb to eeee.

<Single card mode>

7777 cccc Deletes single card (number cccc) as invalid card.

For 6D version:

<Learning card mode>

7333 cccccc Present master card, key in 7333 and place proximity card close to the controller. . To delete this proximity cards as illegal card. Continue this procedure for next card. To finish, press '#'.

<Block range adding mode>

7700 bbbbbb eeeee Deletes entire block of card numbers ranging from bbbbbb to eeeee.

<Single card adding mode>

7888 cccccc Present master card, key in 7888 and then key in the 6 digit ID number. The green light will indicate that the operation was successful. Repeat keyin the next card if needed. T o finish, press '#'.

◦ **GROUP 8. System configurations**

- *8100** No printer report.
- *8101** Printer report for unauthorized access event.
- *8102** Printer report for authorized access event.
- *8103** Printer report for both authorized and unauthorized access events.
- 8400** Configure the reader as “discard the event record” mode.
- 8401** Configure the reader as “store the temporary event record”.
- *8500** Query system parameter output to serial printer interface on PIN 9.
- 88nn** Set device address as **nn** for polling.
- 890n** Programs the waiting time for on-line PC. Larger polling systems require the longer waiting times. For about 10 readers, the suggested code is 8903.
If you set up the system as standalone or batch mode, or batch mode please use code 8900.
- 9nnn** Recall the previous transactions in the buffer from nnn:001~999.
Clear the memory buffer by 9000.

Note: All the function codes with “*” mark are reserved for printer options only.

8. Appendix (Regarding connection with PC-1037):

- 1 377/5707/6730 are very compact keypadless/keypad proximity access controllers with integral proximity reader . It is equipped with RS485 for connecting with PC-1037 multi-doors access controller.
- 2 377/5707/6730 possesses the exit push button function, programmable door release and alarm relay driver, door held position monitoring and so forth. The parameters can be uploaded by PC-1037 remotely.
- 3 PC-1037 can control up to 20 pcs of 377/5707/6730 for on-line or off-line access controller system. Networking of PC-1037 thru PC or Internet is possible.

PC-1037

4 PIN white connector

377/5707/6730 address

8 PIN white connector (01~09)

PIN	colour	Signal Name		PIN	colour	Signal Name
1	Red	A (RS-485)	<hr/>	A	Brown	Rx+/Tx+ data +
2	Yellow	B (RS-485)	<hr/>	B	Red	Rx-/Tx- data -
3	Green	×		C	Orange	TxD+
4	Black	×		D	Yellow	TxD-
				E	Green	Alarm Relay Output B
				F	Blue	Alarm Relay Output B
				G	Purple	Data Terminal Ready
				H	Gray	Signal Ground

PC-1037

4 PIN white connector

377/5707/6730...address

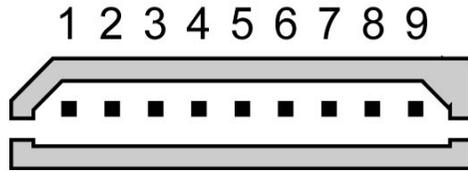
8 PIN white connector (10~19)

PIN	colour	Signal Name		PIN	colour	Signal Name
1	Red	×				
2	Yellow	×				
3	Green	A (RS-485)		A	Brown	Rx+/Tx+ data +
4	Black	B (RS-485)		B	Red	Rx-/Tx- data -
				C	Orange	TxD+
				D	Yellow	TxD-
				E	Green	Alarm Relay Output B
				F	Blue	Alarm Relay Output B
				G	Purple	Data Terminal Ready
				H	Gray	Signal Ground

9. Installation Guide

1. It's surface mounted , please select a suitable position and appropriate height to mount the reader , mark the position of the mounting holes.
2. Drill two 5 mm holes to fix the reader to the wall by using screws provided.
3. In normal state, the power on lamp “Yellow” LED will be in “ON” state, upon legal / illegal card reading , another LED changes to Green / Red color.
4. Normally, please make sure to connect JA & JB connector wires of the reader.
5. Please supply 12 VDC with linear (not switching type) power supply and it's better not share with other devices (lock, readers...)

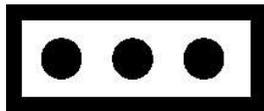
10. Wiring Diagram (Pin assignment for connector)



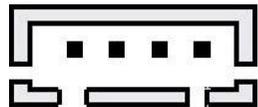
J4, JA-- (9 Pin- Blue, Access port)—377/5707 series
 J2-- (9 Pin- Blue, Access port)—6730 series
 J1-- (9 Pin- Blue, Access port)—87 series



J2, JB (8 Pin- White , Communication or Alarm port) —377/5707 series
 J1 (8 Pin- White , Communication or Alarm port) —6730 series
 J2(8 Pin- White , Communication or Alarm port) —87 series



JC(3 Pin- Blue, Tamper switch output) —377/5707 series
 J4(3 Pin- Blue, Tamper switch output) —6730 series

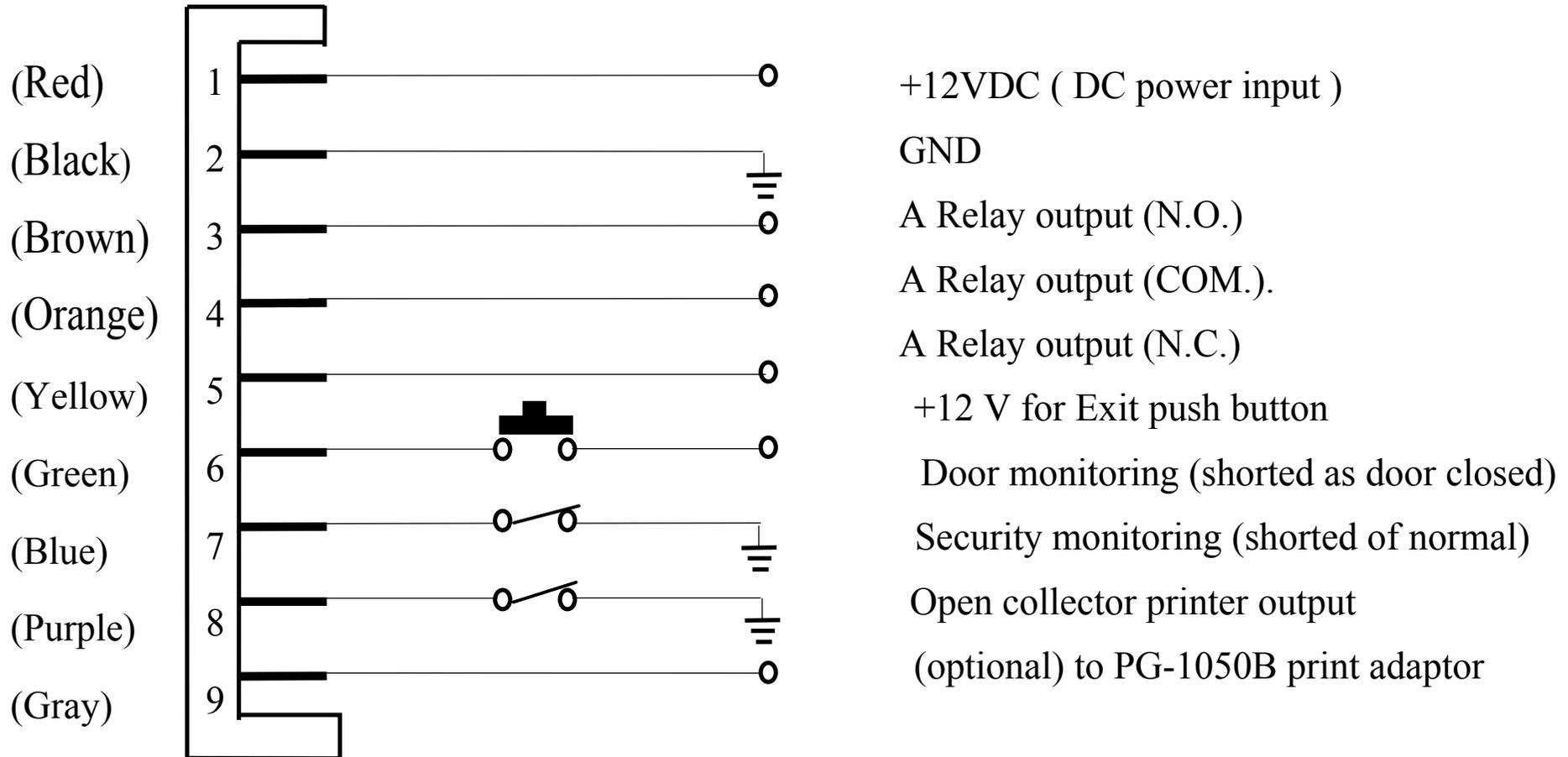


J10, JD (4 Pin- White, External Wiegand reader port) —377/5707 series
 J5 (4 Pin- White, External Wiegand reader port) —6730 / 87 series



J3(5 Pin- White, Tamper switch output and bell) —87 series

A. Pin assignment and description for 9 pin connector



B. Pin assignment and description for 8 pin connector

			<u>RS-422</u>	<u>RS-485</u>
□.A (Brown)	-----	Rx+/Tx+ data A	(RxD+)	A
□.B (Red)	-----	Rx-/Tx- data B	(RxD-)	B
□.C (Orange)	-----	TxD+	(TxD+)	N.C.
□.D (Yellow)	-----	TxD-	(TxD-)	N.C.
*□.E (Green)	-----	Door driver for 2 nd door	COM.	COM.
*□.F (Blue)	-----	Door driver for 2 nd door	N.O.	N.O.
□.G (Purple)	-----	Data Terminal Ready	DTR+	DTR+
□.H (Gray)	-----	Signal Ground	(SG)	(SG)

Communication pins (A.B.G) are used for one-line version PUA-377/PUN-377 (RS-422, RS-485 interface). Pins (E.F) serve as 2nd door driver as 1301 is enabled for two doors mode for some version.

C. Summary description for 3 pin blue connector of tamper switch.

□.1(Yellow) → (COM)

□.2(Green) → (N.O.)

□.3(Blue) → (N.C.)

《Remark》 The contacts between □.1 and □.3 is shorted as the case is well installed.

The contacts between □.1 and □.3 is opened as the case is tampered.

***D. Summary description for 4 pins white connector of external Wiegand.
(For 377/5707/6730/87)***

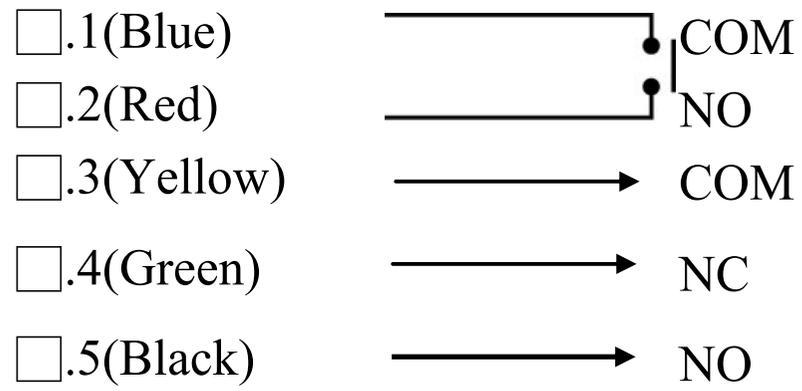
□.1(Red) → (DC 12V+)

□.2(Yellow) → (DATA 1)

□.3(Green) → (DATA 0)

□.4(Black) → (GND)

E. Summary description for 5 pins white connector of bell. (For87)



11. Wiring diagram with external Pegasus' proximity reader

377/5707/6730/87 (4 pins white)

<input type="checkbox"/> .1 Red(DC 12V+)	_____
<input type="checkbox"/> .2 Yellow(DATA 1)	_____
<input type="checkbox"/> .3 Green(DATA 0)	_____
<input type="checkbox"/> .4 Black(GND-)	_____

PUA-310 (4 pins)

Red (DC 12V+)
White (DATA 0)
Green (DATA 1)
Black (GND-)

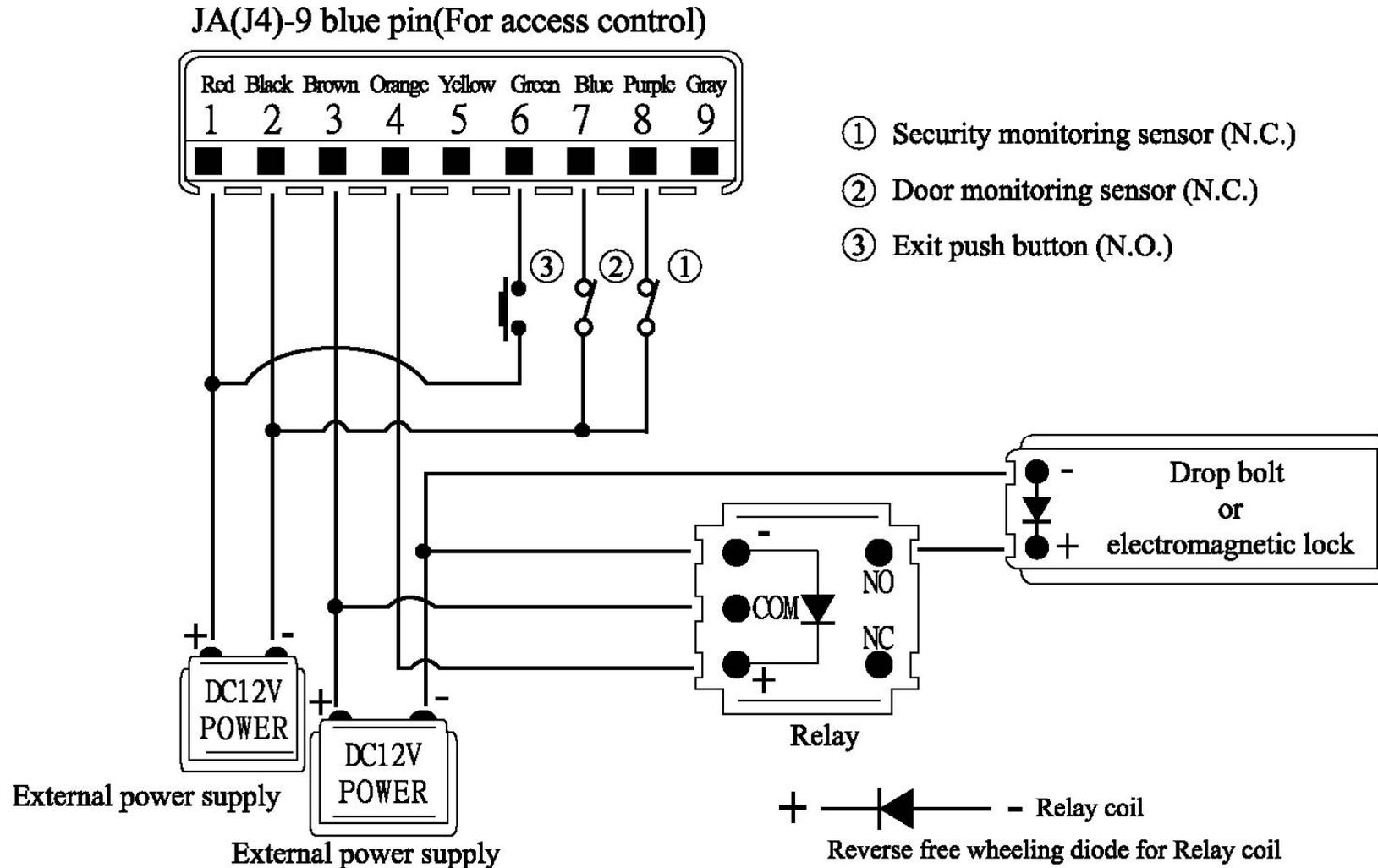
377/5707/6730/87 (4 pins white)

<input type="checkbox"/> .1 Red(DC 12V+)	_____
<input type="checkbox"/> .2 Yellow(DATA 1)	_____
<input type="checkbox"/> .3 Green(DATA 0)	_____
<input type="checkbox"/> .4 Black(GND-)	_____

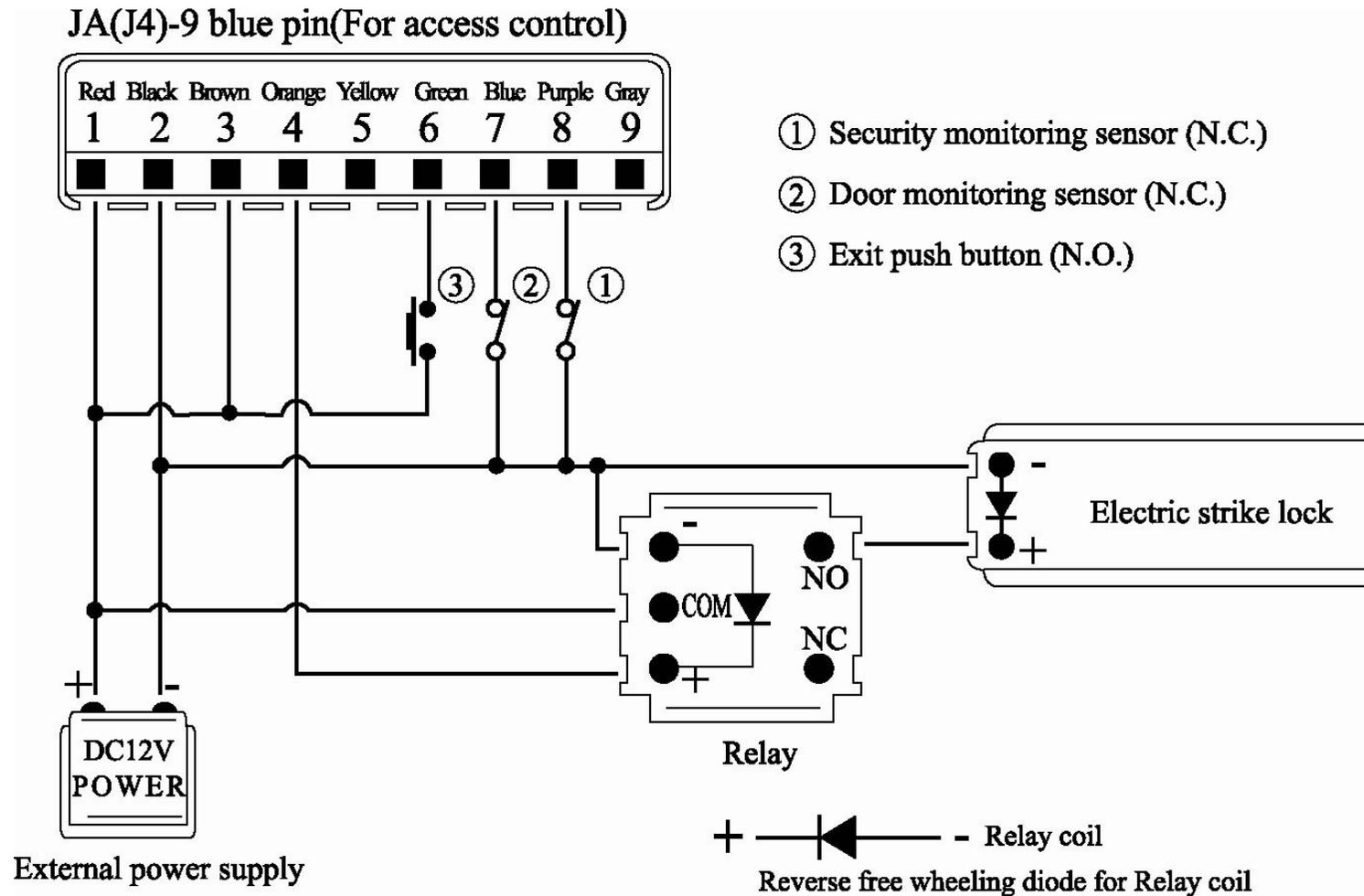
PP-5210 (9 pins)

Red (DC 12V+)
Brown (DATA 1)
Orange (DATA 0)
Black (GND-)

12. Wiring connection with external relay and power supply (such as magnetic lock or drop bolt type lock)

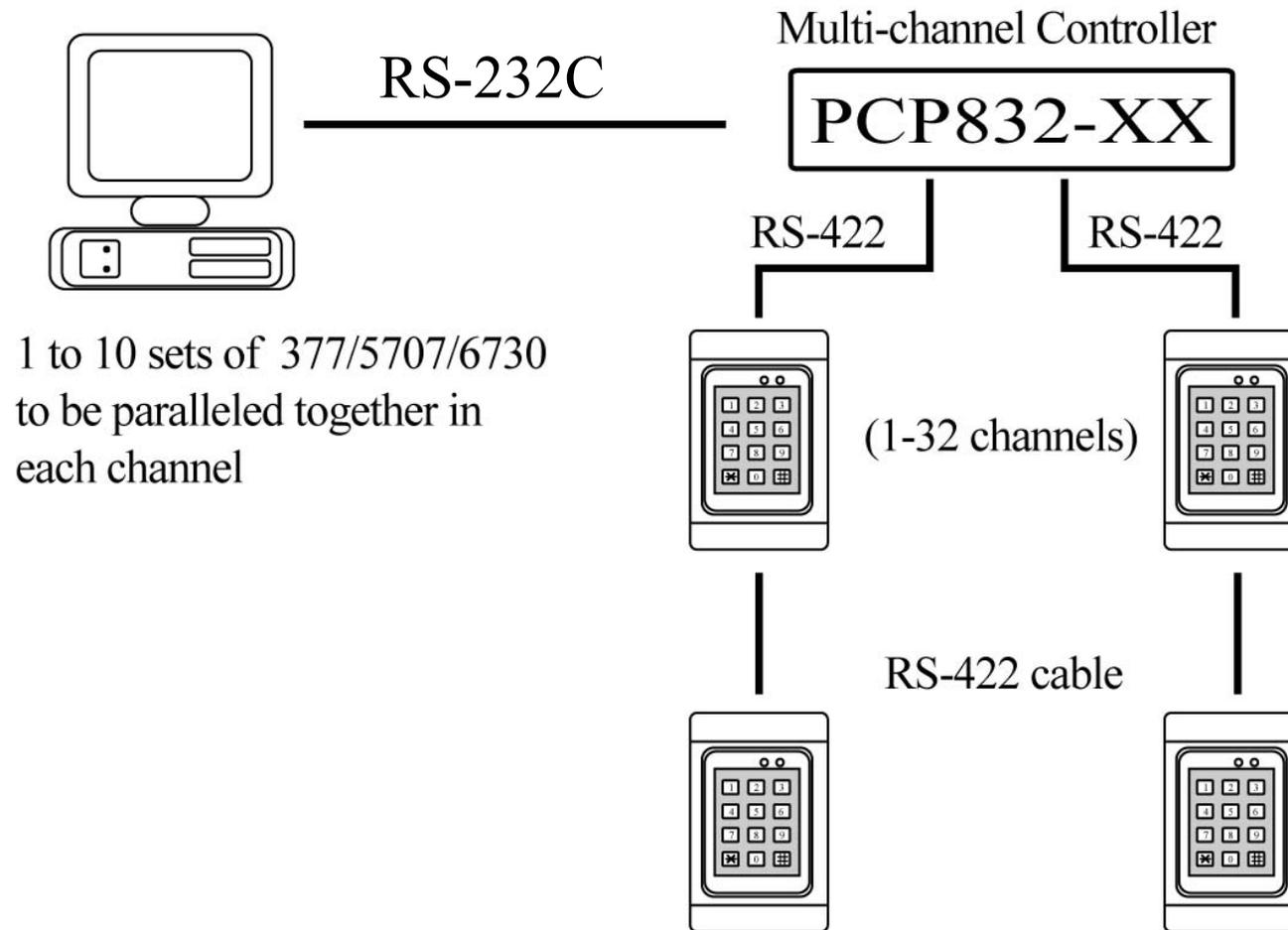


Wiring connection with external relay and power supply (such as electric strike lock)

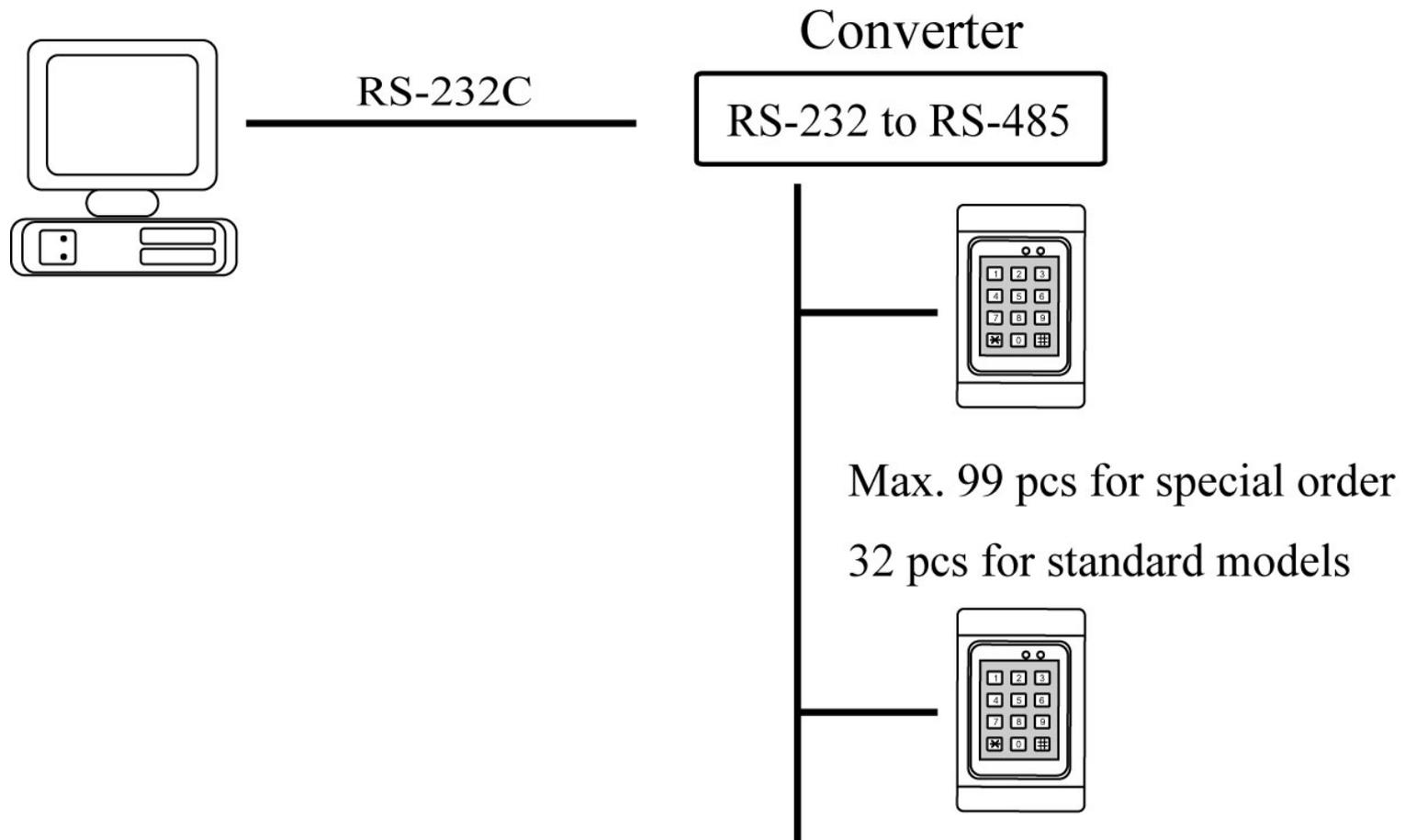


13. On-Line System Configuration and Wiring Examples for communication

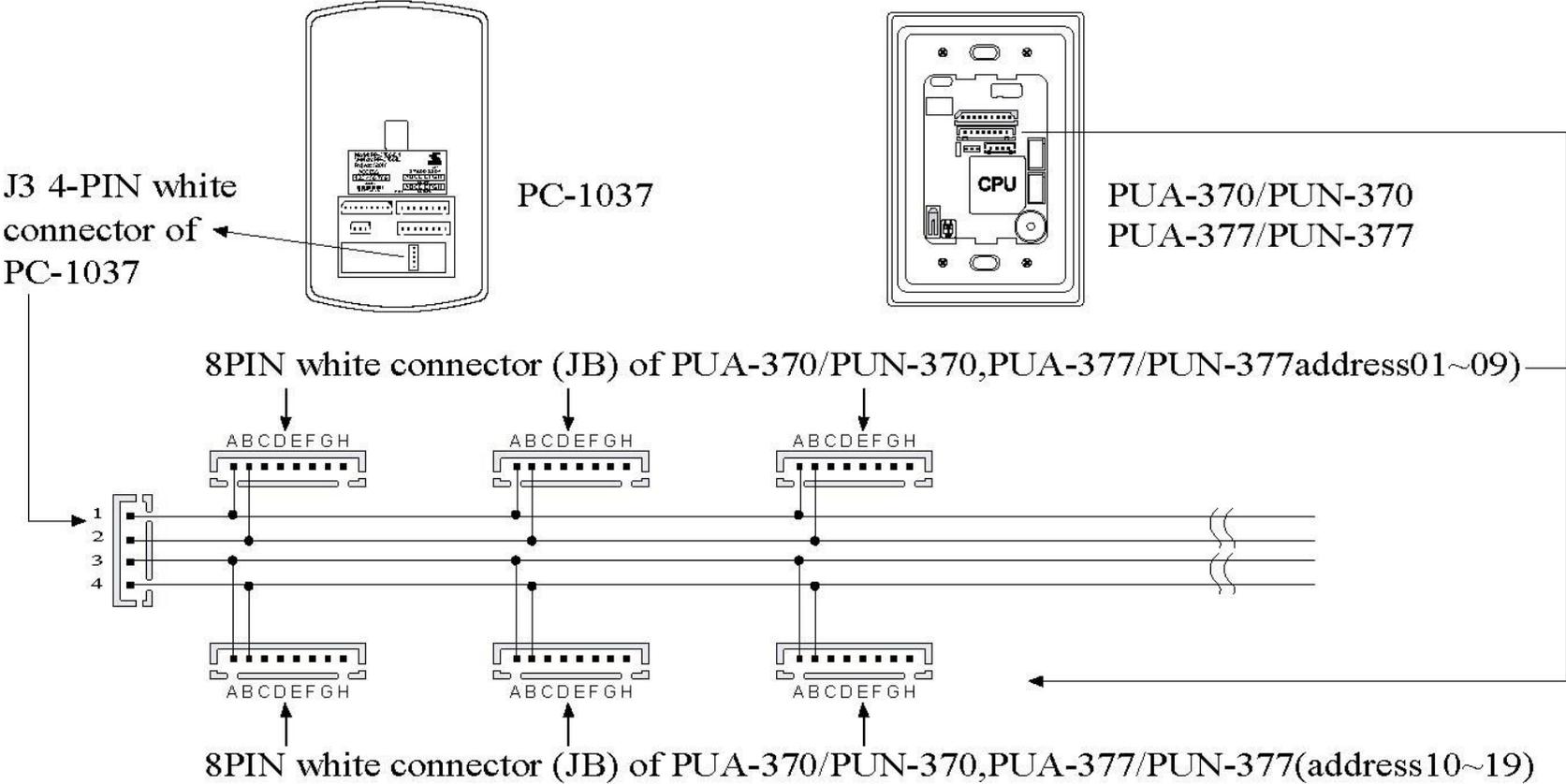
a. On-line system for multiple doors application by PCP832-XX



b. On-line system for multiple doors application by RS-232 to RS-485 converters



C. Wiring connection between PC-1037 controller and slaver readers of PUA-377/PP-5707/PP-6730 series



- * PIN 1 (Red) & PIN 2 (Yellow) are provided for port 1 of PUA-377/PUN-377, PUA-370/PUN-370 with address 01~09
- * PIN 3 (Green) & PIN 4 (Black) are provided for port 2 of PUA-377/PUN-377, PUA-370/PUN-370 with address 10~19

The wire is Belden Communication Cable or UL2464 twist pair cable for RS-485/RS422, with copper braid shield or other characteristic equivalent cable.

You should program the following code **0800, 8903, 88AA** by PUA-377/PUN-377 itself or thru PC-1037 command 64AA (remote command) under F4 to program external reader PUA-377/PUN-377, PUA-370/PUN-370 , so that it can act as data sending /receiving unit to serve as slave readers to PC-1037. You may program 8903 for real time grant by PC-1037. If no personal data are up load by PC-1037. The PC-1037 could store legal and illegal event. Also, you may program 8900 and 8401 (save batch type event), so that each PUA-377,PUN-377/PUA-370,PUN-370 could judge the access and after a while, the PC-1037 will retrieve the data from each reader time recording. But for PUA-370, its address is fixed by jumping wire, you may program by key pad for PUA-377 for other functions or by PC-1037...

The PUA-370/PUN-370, PUA-377/PUN-377 will lit green to signify the card reading is correct and then receive commands from PC-1037 to decide legal (flashing green LED) or illegal (flashing red LED) access status.

14. Troubleshooting / FAQ:

- A. “POW” LED isn’t flashing and there is no response when card is used.
 - ⇒ Check the power supply 12V DC and make sure it has been properly installed.

- B. “POW” LED stays in Green, but reader does not respond to card.
 - ⇒ 1. Check that proximity card is EM type, whether it matches the reader and whether it was acquired through our company.
 - 2. Read the card shortly and check if the reader was installed without any interruption.

- C. “DOR” LED(for 5707 series) stay in Red, and the reader beeps three times after card is used.
 - ⇒ 1. Check whether the card is intended to be used with the reader.
 - 2. Confirm that the card number was printed correctly.

- D. “DOR” LED(for 5707 series) stays Green continuously after using card, but the lock does not execute expected function.
 - ⇒ The reader may have been installed under “3300” mode. Key in door code.

E. “DOR” LED(for 5707 series) stays Green and the lock executes function continuously after card is used.

⇒ The reader was installed in 2199 ON/OFF mode.

Re-position card and wait for the “DOR” LED to turn off.

Re-install 21nn (nn = 1-98) for door strike/shut output timer through Master card.

F. “DOR” LED(for 5707 series) flashes Green but lock does not open door after using card.

⇒ Check whether the diagram for reader & lock (page 26, 27) is connected Correctly; or the lock may be defective.

***Please insulate unused wiring well in order to avoid electrical short down.**



Pegasus

377/5707/6730/87 System

User's Manual

PROXIMITY ACCESS CONTROLLER

(for 4D/6D)

Ver.8.02

0803ama

W-04-377/5707/6730/87/E

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THANK YOU !

Thanks for purchasing 377 /5707 /6730 /87 series Proximity access controller. Before operating the unit, please read this manual carefully and keep it for future reference.