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eSSL C3-400 Door Access System User Manual

Contents

C3- 400 Installation Instructions and Connection Guide

1. Cautions

Please note the following cautions. Mis-operation may lead to personal injury or equipment failure:

1. Do not energize the system before installation is complete; never carry out installation activities when the system is energized.
2. All peripheral devices must be grounded.
3. The conduits of wires under relay must be matched with metaled conduits, other wires can use PVC conduits.
4. It is strongly recommended that the length of exposed part of any connection cable should not be longer than 4 mm. Professional clamping tools may be used to avoid unintentional contact of exposed wires to avoid short-circuit or communication failure.
5. It is recommended that card readers and buttons be installed at height of 1.4m-1.5m above ground.
6. It is recommended to use the power supply for control panel, and external power supply for each lock.
7. The appliance shall be installed and wired in accordance with national electrical code and by qualified personnel only.
   Descr iption of normal wor k ing state:
   Connect the system to the power supply. If the system works properly, the POWER indicator (red) is lit constantly and the RUN indicator (green) flashes.
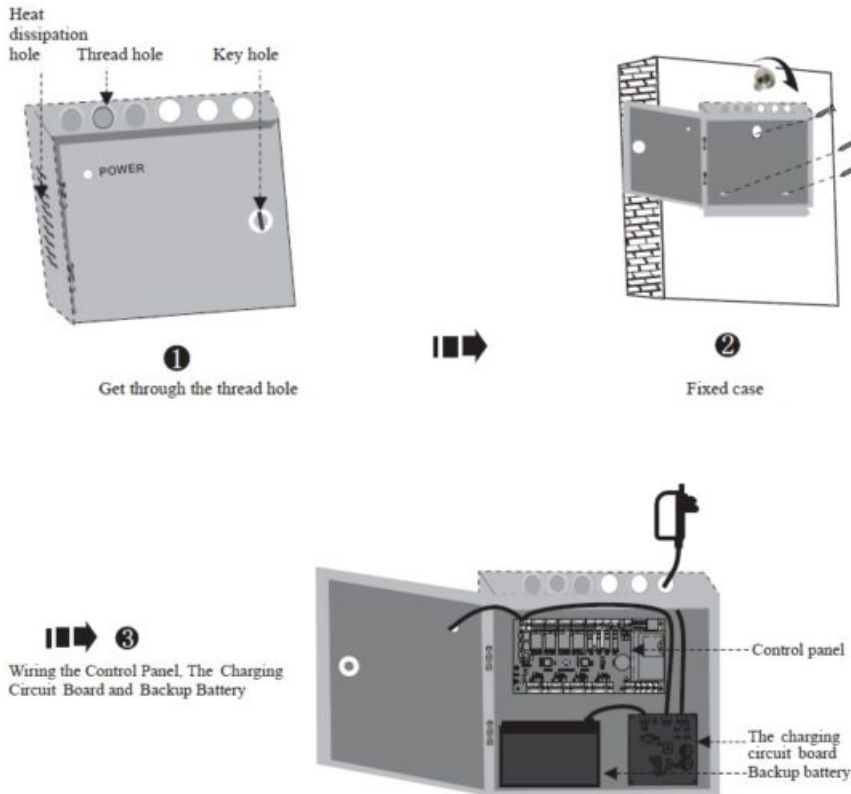
Valve r egulated lead-acid batter y:

Constant voltage charge voltage regulation
Cycle use : 14.5V~14.9V(25) Initial current: less than 2.88A Standby use: 13.6V~13.8V(25) Capacity: 12V, 7.2Ah/20hr, Battery Type: LC-RA127R2T1

Caution:

Do not charge in a gas tight container.
Do not short the battery terminals.
Do not incinerate
Flush with water at once if contact is made with electrolyte (Acid)
Do not attempt to disassemble the battery.

2. Fixed and Installation

❶
Get through the thread hole

❷
Fixed case

❸
Wiring the Control Panel, The Charging
Circuit Board and Backup Battery

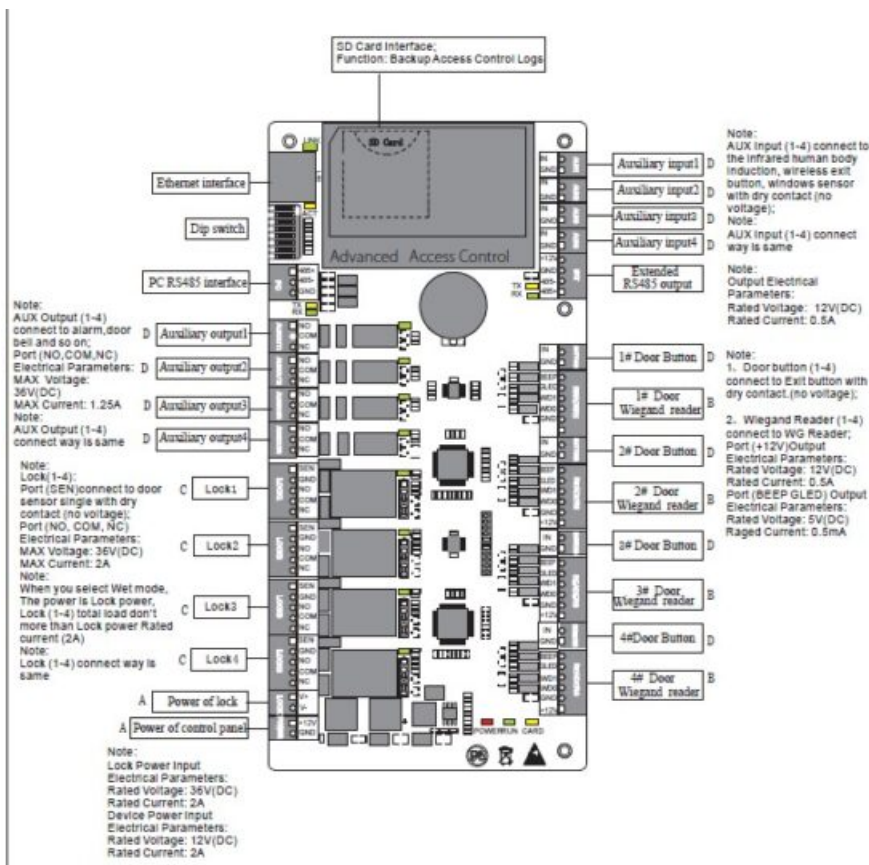## 4. LED Indicators, Wires, Auxiliary Input And Output

Notes:

1)Meaning of LED indicators:

LINK indicator(green): always(green) indicates TCP/IP ACT indicator(yellow): flashing indicates data is in transmitting TX indicator(yellow): flashing indicates it is sending data through RX indicator(green): flashing indicates it is receiving data through Auxiliary output indicator(green):always(green) indicates it is in use. Lock indicator(green):always(green) indicates lock is open. POWER indicator(red):always(red) indicates control panel is power on. RUN indicator(green):its flashing indicates the system works normally. CARD indicator(yellow):its flashing indicates card is punched on reader.

2) Recommended use of wires:

A Use 2-conducotor power cord B Use 6-conductor wire between wiegand reader and control panel (RVVP 6*0.5mm) (Choose the approrciate cord for the interface you connect, such as 6,8,10 cord) C Use 4-conducotor lock power cord (RVV 4*0.75mm) D Use 2-conducotor switch power cord (RVV 24,0. 5mm) 3) The auxiliary input may be connnected to infrared body detectors, alam switches,etc. 4) The auxiliary output may be connected to door bells,alarms,etc.

SD Card Interface;
Function: Backup Access Control Logs

Note:
AUX Input (1-4) connect to the infrared human body induction, wireless exit button, windows sensor with dry contact (no voltage);
Note:
AUX Input (1-4) connect way is same

Ethernet interface
Dip switch
PC RS485 interface

Advanced Access Control

Auxiliary input1 D
Auxiliary input2 D
Auxiliary input3 D
Auxiliary input4 D

Extended RS485 output

Note:
Output Electrical Parameters:
Rated Voltage: 12V(DC)
Rated Current: 0.5A

Note:
AUX Output (1-4) connect to alarm, door bell and so on;
Port (NO,COM,NC)
Electrical Parameters:
MAX Voltage: 36V(DC)
MAX Current: 1.25A
Note:
AUX Output (1-4) connect way is same

Auxiliary output1 D
Auxiliary output2 D
Auxiliary output3 D
Auxiliary output4 D

Note:
Lock(1-4):
Port (SEN)connect to door sensor single with dry contact (no voltage);
Port (NO, COM, NC)
Electrical Parameters:
MAX Voltage: 36V(DC)
MAX Current: 2A
Note:
When you select Wet mode, The power is Lock power, Lock (1-4) total load don't more than Lock power Rated current (2A)
Note:
Lock (1-4) connect way is same

Lock1 C
Lock2 C
Lock3 C
Lock4 C

Power of lock A
Power of control panel A

Note:
Lock Power Input
Electrical Parameters:
Rated Voltage: 36V(DC)
Rated Current: 2A
Device Power Input
Electrical Parameters:
Rated Voltage: 12V(DC)
Rated Current: 2A

1# Door Button D
1# Door Wiegand reader B
2# Door Button D
2# Door Wiegand reader B
3# Door Button D
3# Door Wiegand reader B
4# Door Button D
4# Door Wiegand reader B

Note:
1. Door button (1-4) connect to Exit button with dry contact. (no voltage);
2. Wiegand Reader (1-4) connect to WG Reader;
Port (+12V)Output Electrical Parameters:
Rated Voltage: 12V(DC)
Rated Current: 0.5A
Port (BEEP GLED) Output Electrical Parameters:
Rated Voltage: 5V(DC)
Raged Current: 0.5mA

POWER RUN CARD

5. RS485 Address Setting, Restore Factory Setting, Terminal Resistance Setting

Set RS485 address through DIP switch:

1. Place 1-6 on DIP switch are for setting the number of control panels when communicating through RS485, it is adopted for binary coding, and little endian, the address represented by place 1-6 are shown as figurue(5-1).
2. Before setting the address, please keep the system power off. Jump place 1-6 to desired status. The address number cannot be the same as another one in the network. For example: to set the device number as 39 (39=1+2+4+32), the corresponding RS485 code is 111001, then Jump place 1,2,3 and 6 at "ON" status.

ON
1 2 3 4 5 6 7 8
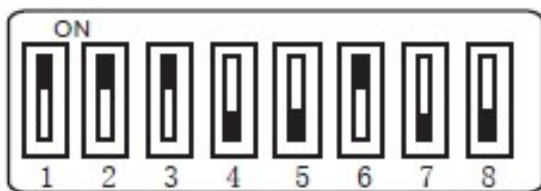
3. Place 7 is for restoring factory default settings. Jump it for three times within 10 seconds and restart the system. All information in control panel will be cleared and the system restores factory RAM default settings.
4. Place 8 is for setting terminal resistance when communicating through RS485. Jump it at "ON" status, then it is equivalent to having a terminal resistance of 120 ohm between 485+ and 485-.

Location of DIP switch

Figure (5-1)
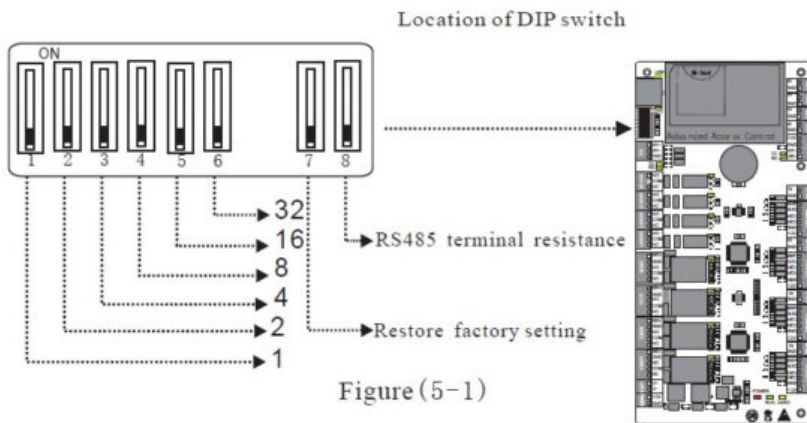
6. Connection Of Lock

1. Control panel provides lock control output interfaces. For NO lock ,it is open when power is on, and closed when power is off, so COM and NO interfaces should be used; For NC lock, it is open when power is off, and closed when power is on, so COM and NC interfaces should be used.
2. Control panel supports "dry mode" and "wet mode" by setting the jumper, it is "wet mode" when connecting "V+ V-" Input interfaces to supply power for locks, please shorten 2-3 and 4-5 . Equipment factory default setting is dry mode. For setting "dry mode" and "wet mode", please refer to <<C3-100/200/400 access control panel installation instructions>>
3. When the Electrical Lock is connected to the Access Control System, you need to parallel one FR107 diode (equipped in the package) to prevent the self-inductance EMF affecting the system, do not reverse the polarities.
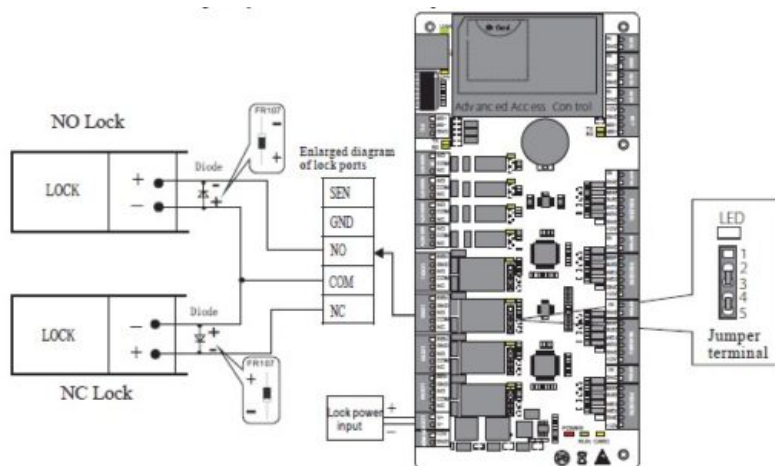

7. Equipment Communication

The background PC software is able to communicate with the system according to two protocols(RS485 and TCP/IP) for data exchange and remote management. The communication cable should be as far away from high-voltage lines as possible. Do not keep the communication cable in parallel with power cords or bind them together
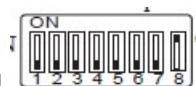
1.TCP/IP Communication

1. TCP/IP Communication
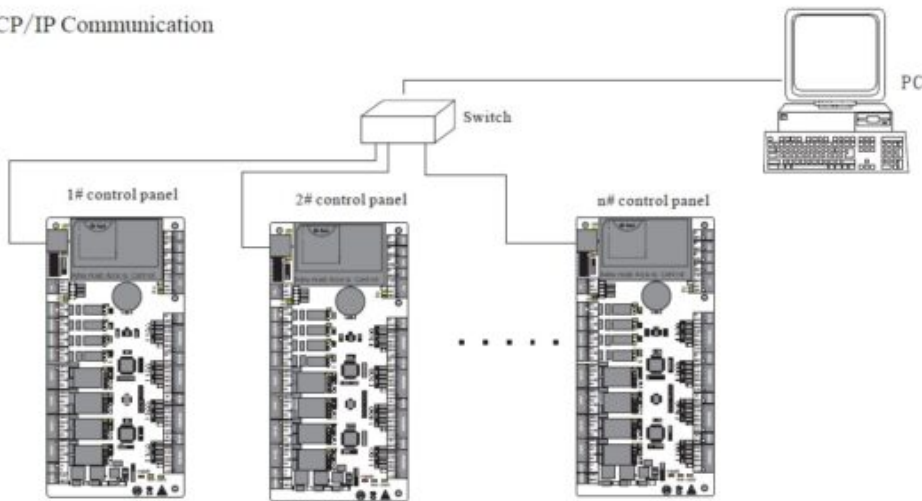
2.RS485 Communication

DIP switch
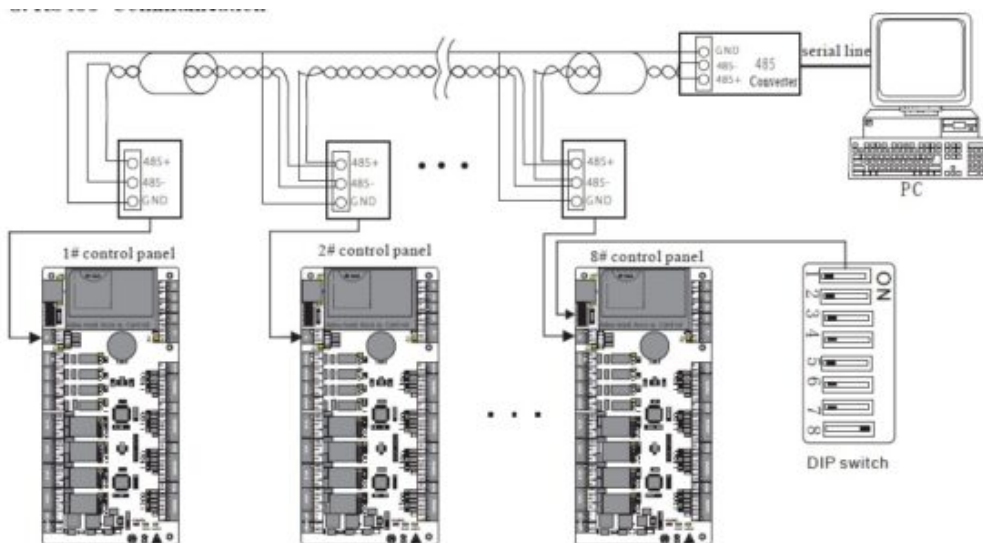
Notes

1. Internationally accepted RVSP(shielded twisted-pair) wires should be used for communication to effectively avoid interference. RS485 communication wires should be connected by means of bus cascade connection.

2. Considering stability of communication, it is recommended the length of RS485 bus is less than 600m

3. One RS485 BUS may hold 63 control panel units, but it is not recommended to connect with more than 32 units access control panels..

4. To enhance the stability of communication when the bus is longer than 300m, it is necessary to keep place 8 of DIP switches of the first and the last control panel at "ON" status. As shown in the figure above, place 8 of the DIP switches of units 1# and 8# is placed at "ON" status.

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References

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