

Adroitor AT8000

TCP/IP Access Controller User Manual-V1.0

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Chapter 1 Access Controller cable routing requirements

Cable routing requirements (Even if the cable length is short, still need to follow below instructions)

110V/ 220V AC power cord

use 3 cords AC power cable, cable cross-sectional area $> 1.0 \text{ mm}^2$, and ensure the power cord is grounded to avoid any interference from mains.

Electronic lock to controller cable

use 2 cords AC power cable, cable cross-sectional area $> 1.0 \text{ mm}^2$, if cable length over 50 meter, then shall use thicker cables, max length shall not be exceeded 100 meter. Magnetic sensor cable suggest use 2 cords cable, cable cross-sectional area $> 0.22 \text{ mm}^2$, if needn't to know if door is opened or closed, or needn't alarm function, such as door is not closed or illegal break-in, interlock, then needn't connect the magnetic sensor cable.

Note:

some of the electronic lock only got 2 wires, say 12 VDC and ground wire, which is without magnetic sensor, therefore can not indicate the door open/ close statues. If need to achieve alarm function, make sure the electronic lock is 4 wires or more wires that with magnetic sensor.

Card Reader to Controller cable

use 2 cords cable, cable cross-sectional area $> 0.22 \text{ mm}^2$, if needn't card reader make sound & light alarm when swipe illegal card, then needn't to connect BEEPER(blue) and LED (Brown) wire to controller ports.

Data 0 and Data 1 cable better are twist pair. Max cable length suggest not exceed 80 meter, and if over 50 meter, suggest use thicker twist wires.

Exit Switch to Controller cable

use 2 cords cable, cable cross-sectional area $> 0.22 \text{ mm}^2$

TCP/IP communication cable

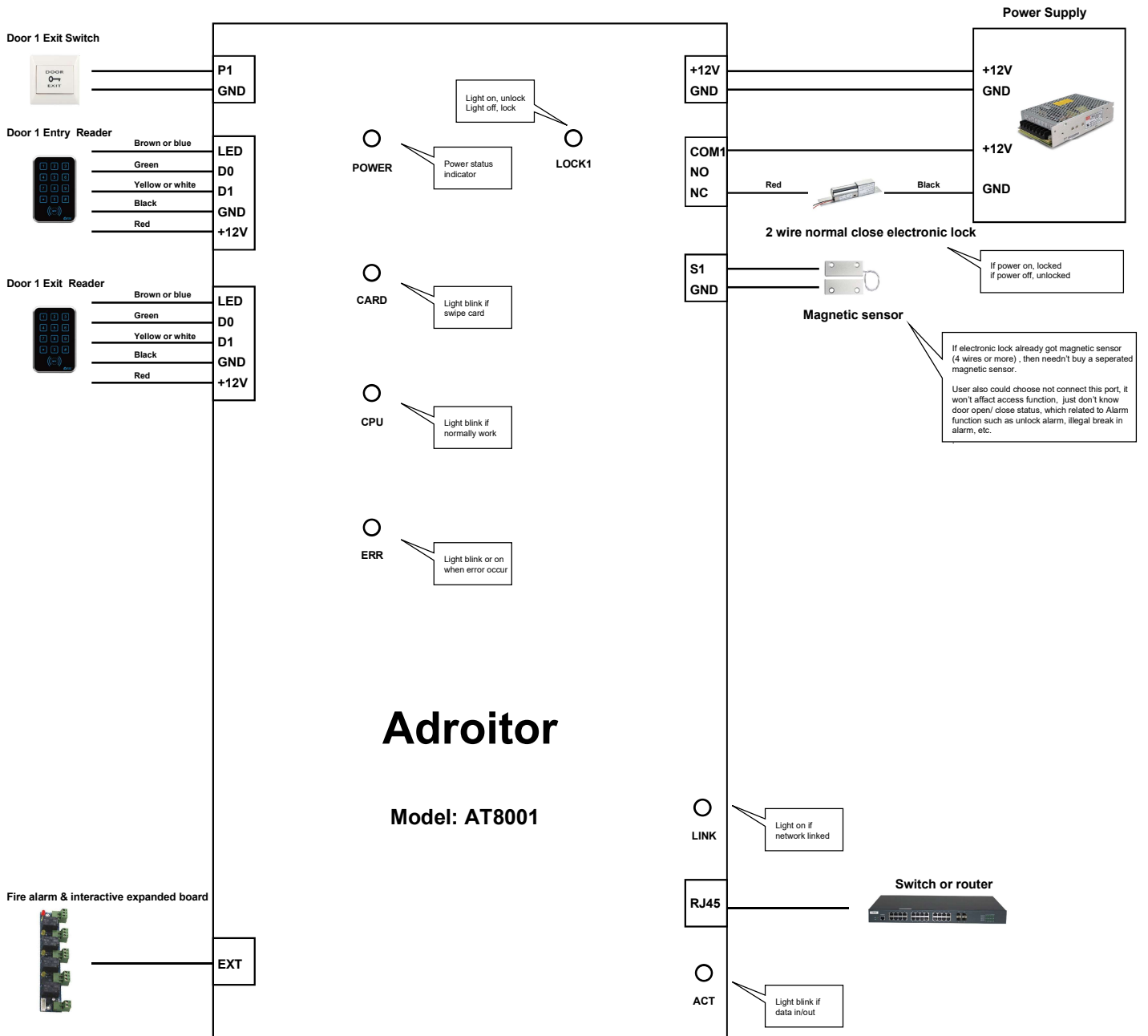
Same as computer network. Controller to switch or HUB cable use normal network cable, cable length shall not exceed 100 meter.

Note:

If network cable routing is not easy to apply, then could use a router that setting to AP mode as intermedia bridge, then through this router to connect to exist wifi network.

Chapter 2 Access Contoller Wire Diagram

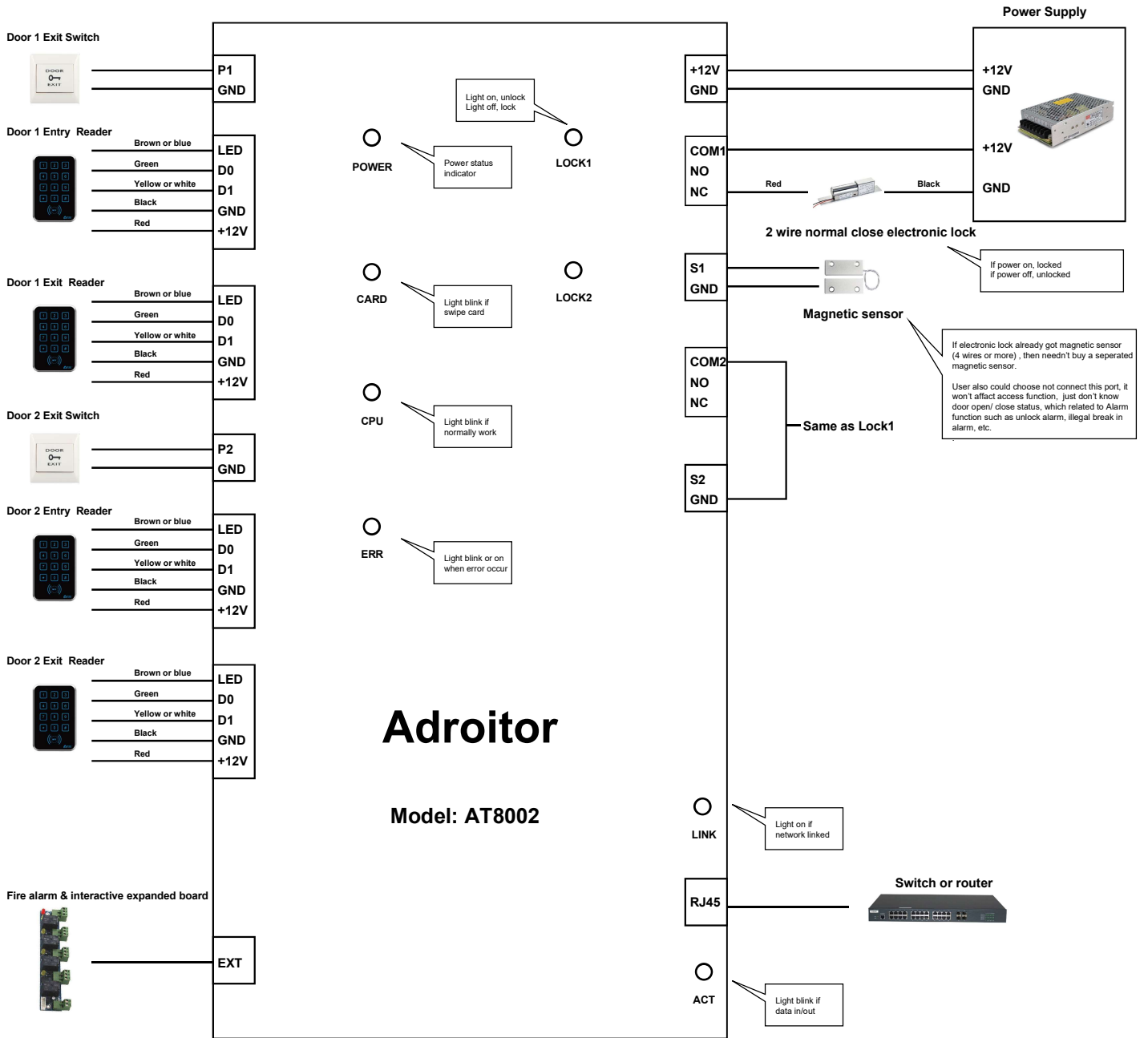
2.1 AT8001 Single door bilateral pass TCP/IP access controller wire diagram



Attention

- If it is normal close electronic lock, then electronic lock positive wire connect to NC pin and negative wire connect power supply Ground pin.
- If it is normal open electronic lock, then connect to NO pin.

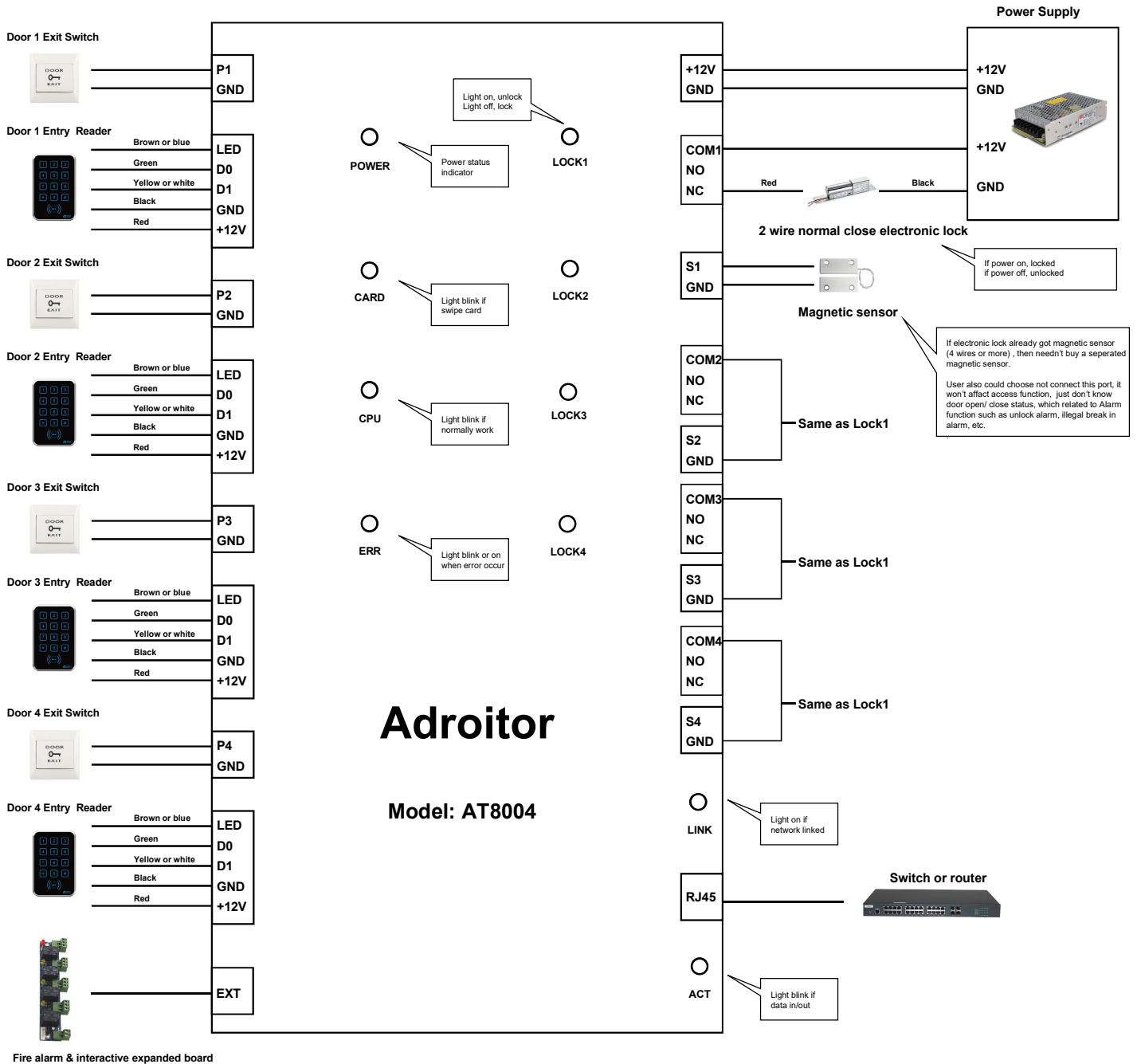
2.2 AT8002 two door bilateral pass TCP/IP access controller wire diagram



Attention

- If it is normal close electronic lock, then electronic lock positive wire connect to NC pin and negative wire connect power supply Ground pin.
- If it is normal open electronic lock, then connect to NO pin.

2.3 AT8004 four door single pass TCP/IP access controller wire diagram

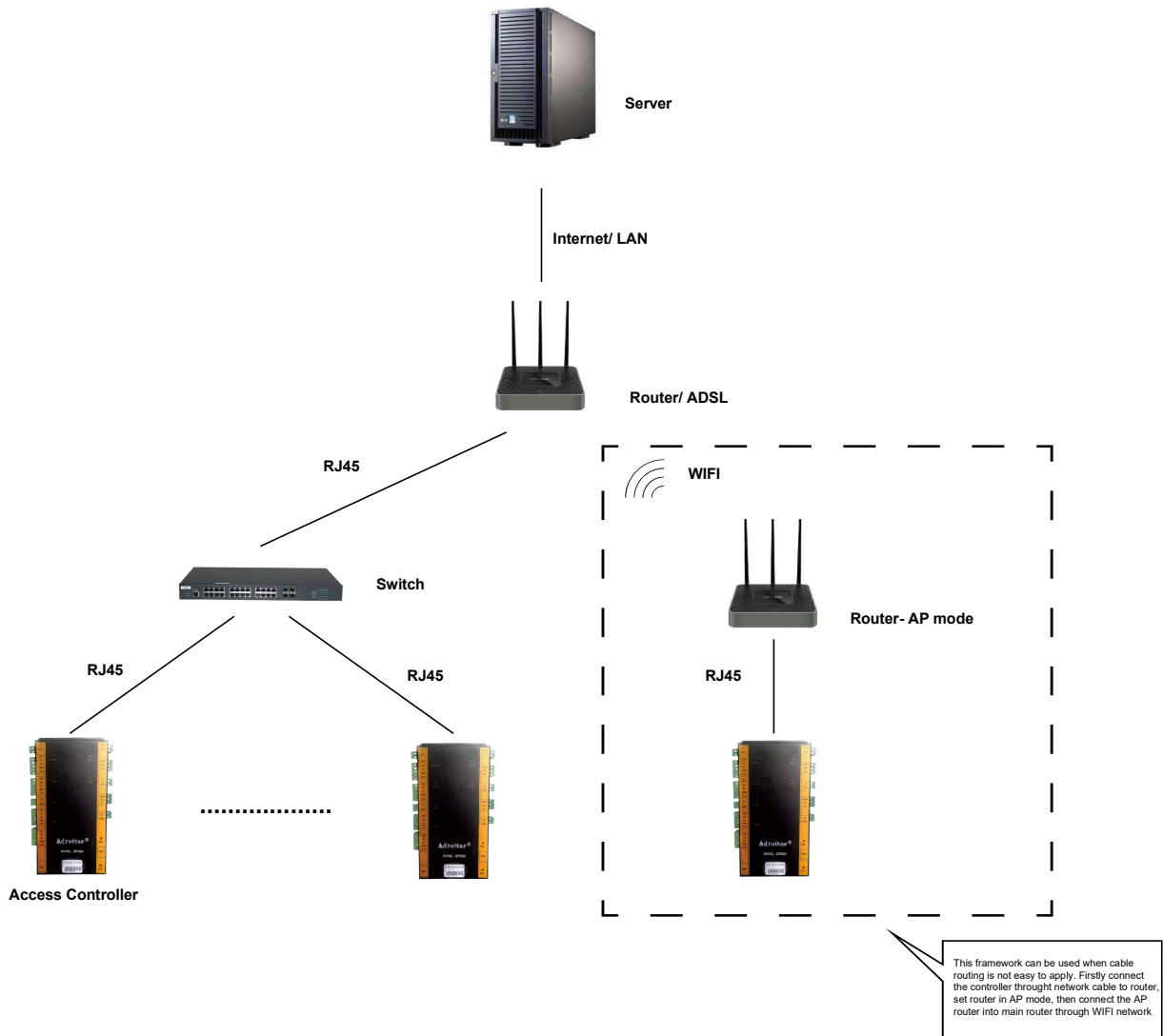


Attention

- If it is normal close electronic lock, then electronic lock positive wire connect to NC pin and negative wire connect power supply Ground pin.
- If it is normal open electronic lock, then connect to NO pin.

Chapter 3 Access Controller network illustration

TCP/IP access controller network illustration



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