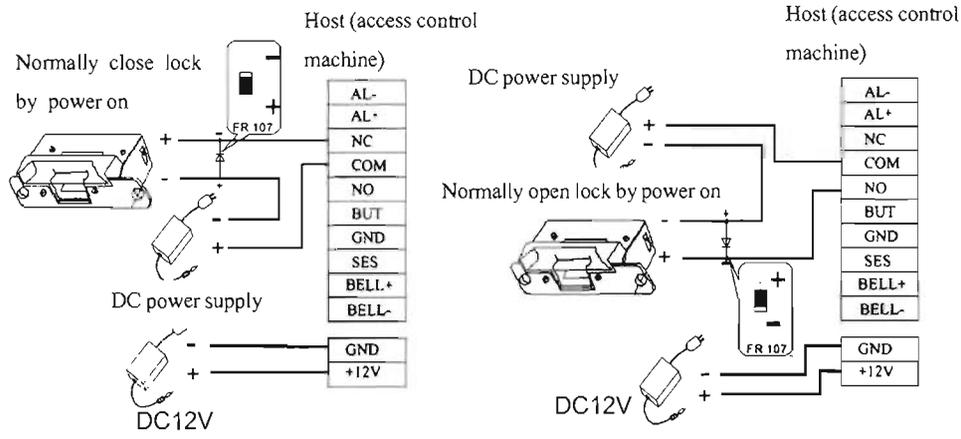


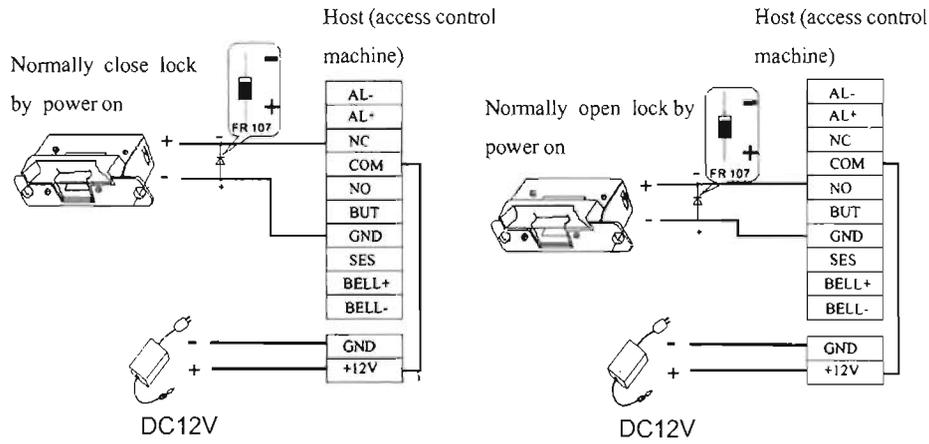
### Connection Notices about Access Control System

- **Problem description:** When the access control system used with the electric lock, the system halted will appear from time to time or irregularly, which is accompanied by a variety of unusual phenomena, such as indicator light constant on, LCD screen display abnormal, only two points of the second instruction of the display to flash, the time display unable to refresh, unable to unlock when brushing the card or the other phenomena.
- **Analysis the reason:** Since not parallel connection with the freewheel diode during using the electric lock, the system is damaged by the self-inductance high-voltage shocks generated during the unlock moment
- **Solution:** In order to prevent the self-inductance high-voltage shocks generated during the unlock moment to affect the access control system, during the connections, the electric lock should be paralleled with a diode to release the self-inductance high-voltage shocks generated during the unlock moment.  
Diode Model: Select the faster cover diode FR107 with a faster response speed.
- **Connection Notes:** FR107 diode is divided into the positive pole (shown as '+' in the figure) and the negative pole (shown as '-' in the figure). During the connection, '+' pole of diode should be connected to the '-' pole of the electric lock, while '-' pole of diode should be connected to the '+' pole of electric lock, and the diode should be as close as possible to the electric lock. Four connections are shown as follows:

## 1. Device and lock don't share the power



## 2. Device and lock share the power



## Standalone



## Network

