



AN1086 - How to connect a lock with an independent power supply

What the Relay does

Paxton control units use a voltage free relay to control external devices. This will normally be a lock, but it can also be used to provide a trigger for a barrier, alarm system, etc.

It is important to realise that the relay provides no voltage of its own (unlike the lock wires of a compact system). We normally loop the 0V lock feed through N.O. or N.C. terminal and then pick up this switched 0V again at the COM terminal; 12V being supplied directly from the common power supply.

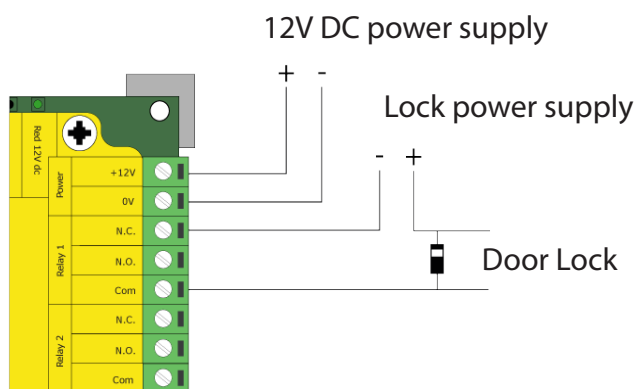
With no power supply of its own, the relay becomes just a volt free switch and so can be used as a trigger for another device. By using COM and either N.C. or N.O., the external device will then check for a closed or open circuit and act accordingly.

Controlling a lock with its own power supply

In the same way, any device (e.g. 24V lock) that needs to be controlled via the Paxton relay needs to have the 0V line from its own power supply wired to N.C. or N.O. and the lock wired to COM; the +ve lock voltage is wired directly from the supply to the lock.

A diode should be fitted across the lock feed to protect the relay contacts from any back currents when the lock is de-energised.

Net2 classic



Net2 plus

