

## FREQUENTLY ASKED QUESTIONS

### Why do modules not work in some sockets, and when they are removed to other sockets they work fine?

This can happen in a multi-phase system, whereby the X10 signals are not coupled between the phases. In many cases the coupling of the phases is already present. In other cases the coupling can be realised by installing one or more Coupler/Filters ([FD10](#) or [CR244](#)). When 3 phases need to be coupled, it is necessary to install 3 FD10 Coupler/Filters or 1 CR244 Active repeater.

At the same time, the FD10 Coupler/Filters prevent that X10 signals enter or leave the house.



### Modules that are installed a long distance of the controller do not respond to commands, while others work. How does this come?

The X10 signal is transmitted on the power line with a signal amplitude of 5 V. The Modules respond to commands when the X10 signals have a minimal amplitude of 50 mV. We can say that there is a significant tolerance. But, sometimes the signal can be weakened by a big inductive or capacitive user. They "absorb" the X10 signal. Several solutions are possible to prevent the influence of this user on the X10 signal. The Controller can be installed on a central place between the Modules. If possible as far away as possible from the heavy user. Now the signals should reach the Modules with sufficient amplitude. Another effective solution is to install a Coupler/Filter ([FD10](#)) between the heavy user and the power line.

Now, the X10 signals can not reach the heavy user and can therefore not be influenced.

