

This is an important document and should be read and understood clearly by any customer or contractor who wants to use a proximity reader or fob remote from the logic unit to operate turnstiles, gates or barriers.

The purpose of this document is to outline the measures which must be taken to prevent electrical interference preventing proper working of touch tokens or proximity readers.

It has been diagnosed that the improper running of cables and their incorrect location can prevent the signals from touch tokens or proximity readers reaching the logic unit intact or in an intelligible format.

It should be noted that all signals from the readers are operating between 2.8 and 5 VDC and therefore interference from outside electrical items can easily cause problems.

All mechanical equipment must be correctly earthed as must all barrier and turnstile metal work.

The electrical device within the barrier can cause very high currents to enter the signal cables and therefore they must not be ran together. It is recommended that all signal cables to the FOB or proximity readers be kept a minimum of 1 meter from the cables powering the turnstile or barrier.

If possible connect the power for the turnstiles / barriers through a secondary relay as per the drawing below.

All signal cables must be ran in separate ducting to the power cables as failure to do so will result in either damage to the units or failure of same.

Wiztec are not responsible for any damages caused by either incorrect cabling or earthing and the correct installation of this is the customer's responsibility.

1. Use an external relay to switch high current solenoid (only use the Wiztec logic board to drive the coil of this external relay and not the solenoid itself)
2. Run separate cable ducts (one for the solenoid circuitry and one for the FOB)
3. Keep the ducts a couple of feet apart – if cables come close to each other, then make sure they are 90 degrees to cross together and not running parallel to each other

