

Designing your FarmGuard System

There are four very simple steps to designing a security system to suit your requirements exactly.



Decide how many sensors you need. Have a look around your property and identify the vulnerable areas you'd like to protect. These might be the main entrance, a rear entrance hidden from view, a diesel tank or a workshop full of machinery and tools. Having identified the areas that need protection, calculate how many sensors you'll need to do the job. Each sensor covers 30m in a straight line (picture a 30m-long beam). They can be mounted back to back or facing each other to achieve greater spans. Bear in mind that for detection of incoming vehicles, the sensor wants to see the front of the vehicle, where the heat is produced. This is best achieved by mounting the sensor at an angle, pointing diagonally across the driveway / track. And remember, you can easily expand your system as the need arises simply by adding sensors.

Decide which receiver you want. We have two receivers to choose from, as follows:



Single-channel: This is a simple "black-box" solution comprising a high-sensitivity receiver and a built-in buzzer. It is armed and disarmed simply by switching it on and off at the wall. It can therefore be plugged into a timer for automatic arming and disarming. You can have as many sensors as you want transmitting to a single-channel receiver, and whenever any of them is triggered, the built-in buzzer in the receiver will sound. The limitation is that it

doesn't tell you which sensor has been triggered. For this reason, this receiver is best suited to systems with just one or two sensors, or a few sensors located close together.



8-channel: This is a much more elaborate box of tricks. It has eight zones over which to spread your sensors (up to eight on each zone!) and an indicator light for each zone, meaning that you can identify the source of any intrusion at a glance. Additional benefits include a remote control facility (up to eight handsets may be used), low sensor-battery indication, monitoring of the sensors' tamper circuits, connections for sirens, strobes and diallers, highly versatile programming options and a 24-hour battery backup. It's ideal

for multi-sensor applications and applications where remote-control arming and disarming is required.



Decide whether you need any booster aerials or repeaters. The transmitting range of the external sensors is about 400m line-of-sight. If there are buildings in the way, this may be reduced by up to 50%. You can double the effective range by fitting a whip antenna to the receiver, or even quadruple it to about a mile with a yagi antenna. See the **FarmGuard Accessories** section of our website.



Select your Bells and Whistles. The two receivers listed have built-in sounders that will alert you in the house when there's a problem outside. Each receiver can also accommodate a range of external sirens, pagers and diallers, so you can make sure that the alarm is raised outside or even sent to a pager in your pocket or your mobile phone. These too, along with various other handy options are listed in the **FarmGuard Accessories** section of our website.

Needless to say, if you have any queries when you're putting your design together, or when you're installing it, we're delighted to help. Just give us a call on 01573 440761 and we'll talk you through it.

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