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INTELLIGENT SENSITIVE WIRE FENCE **WPS**





WPS

INTELLIGENT sensitive wire fence

The WPS system was developed from the requirement to create a perimeter security system that had both improved tolerance to sabotage and detection of intrusion. It is a perimeter fence comprising sensitive wires run parallel to each other at a distance of about 15cm apart and supported by posts arranged along its length at a distance of about 2.5 – 3.0m. The resultant fence is sensitive to the disturbances (cutting, climbing, etc) generated by intrusion attempts. The WPS system is a modular system, which can be installed on any size or shape perimeter. The installation can also be on top of or in front of

an existing perimeter wall.

OPERATION

The sensitive cable of the WPS is made with a stainless steel core and an active effect based on the electro-constriction phenomenon. The stainless steel core makes the cable very robust and ideal for creating the desired fence. The active characteristic of the cable (ELCOS) is uniformly distributed throughout the entire length of the cable making the fence sensitive at every point. Following a mechanical disturbance (movement in the cable) caused by attempts to climb or push it apart, the cable generates an electrical signal, which

is amplified by an amplifier unit and then sent to a concentrator unit together with any cable cut or tamper signals. The concentrator analyses the signals from up to 8 sensitive wires.

COMPONENTS

Control Unit (MIND)

This can control from 1 to 64 remote peripheral (concentrator) units. The analyser generates all the alarm output signalling via associated relay boards. It is also possible to connect a personal computer to perform the set up, troubleshooting and recording functions on the system.





Concentrator

This is the microprocessor unit that performs the intelligent analysis on the information provided by up to 8 amplifiers and, after the analysis, to generate the alarm signals. The analysis can discriminate between common mode signals (wind, hail, rain, etc) or temperature effects and genuine alarms.

Amplifier Unit

This unit contains the first stage of pre-amplification and is directly connected to the sensitive wire, receiving the electrical signals from the wire and after amplification, sending them to the concentrator. It can also generate a signal to indicate a cut of the sensitive wire.

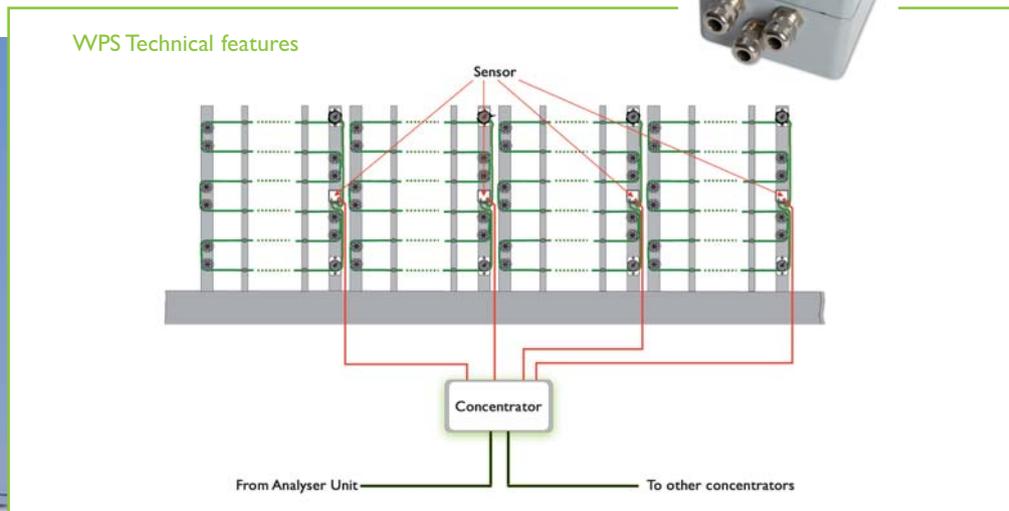
Sensitive Wire

The sensitive wires are connected directly to the amplifier units. Each wire can have a maximum length of 300m and can be installed in many different configurations dependent on the height and length of the zone to be protected.

SOFTWARE

By connecting a PC and running special management software (Multiplex2000) it is possible to see the signals detected by the wires in a graphical format. This display is particularly useful during installation as it can show the level of background noise on the system. It is also possible to set up the system parameters while viewing on the monitor the signals

corresponding to different mechanical disturbances. In cases of nuisance alarms (not caused by a genuine intrusion) it is possible to use the computer to record the events. By setting a minimum threshold the computer will memorise all the signals that are above the threshold, together with the 4 seconds preceding the event. The date and time of the event are recorded with the signal. This allows accurate analysis of the recorded signals and will give a better identification of the cause of the false alarms.



TECHNICAL FEATURES

	Sensor	Concentrator	MIND(Multiplex2000)
Power supply	from concentrator	55 Vdc	12 Vdc
Quiescent current	1 mA	20mA@55V	50mA
Operating temperature	-30° +60°C	-30°C +60°C	-5° +60°C
Dimensions	80x80x50 mm	125x125x50 mm	5U 19" rack
Weight	400 gr.	800 gr.	2,0 kg.

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