

MICROWAVE MONOSTATIC SENSORS

The sensors are intended for the protection of separate perimeter sectors where it is difficult or impossible to use Bistatic sensors, for example: blind streets, marshlands, ravines, communication passages over the fence, stock areas, tunnels, overpasses, viaducts, etc.

The principle of operation: the sensor has one electronic unit containing the transceiver. The sensor transmitter radiates the linear frequency modulated signal. The sensor receiver registers the level of the signal received. In case there are moving objects in the detection zone the receiver registers the alteration of the signal received and generates the alarm. The sensor works on the Doppler effect.

Special software allows to make it easy to start-up the sensor and assures the correct configuration of the sensor parameters.

The configuration is made:

- using the laptop (Windows) via USB interface in field;
- using the tablet or smartphone (Android) via Bluetooth wireless interface or USB;
- via Ethernet using PC;
- remotely from the guard room via RS-485 interface.

Division into 12 sub zones allows to configure the sensitivity separately in every sub zone. Antenna gain and thresholds levels are set separately in every sub zone. Like this we adapt the sensor to the given interference situation on the site.

One or several sub zones can be disconnected. Disconnecting the sub zones we can provide «secured» passages on the protected site for free moving of people through the checkpoint and free moving of transport through the gates. In order to increase the interference immunity we recommend to disconnect the sub zones where detection is not required.

Equalization of sensitivity throughout the length of the detection zone allows to identify its limits clearly and increase the interference immunity to people and transport moving outside the detection zone.

There are two models differing in operational frequency: 9,375 GHz and 24,15 GHz.

