

TECHNICAL SPECIFICATIONS

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Microwave Bistatic Sensors Forteza FMC Series

WHAT IS IT?

The sensors are intended for the protection of direct perimeter sectors, the surrounding territory of the object. An intruder will be detected before the entering in to the important object territory. Security personnel can respond immediately to violations and stop the intruder before he committed a crime.

WHERE IS IT USED?

The sensors can be used to protect industrial facilities, airports, sites of force structure, power plants, private premises, etc.

HOW DOES IT WORKS?

The principle of operation is based on generation of an invisible volumetric detection zone between the transmitter and the receiver. When the intruder is crossing the detection zone, the receiver registers its alteration and generates the alarm.

WHY TO CHOOSE IT?

USER FRIENDLY - The sensors are easy to mount and adjust and do not require significant expenses on seasonal maintaining.

HIGH QUALITY - We use up-to-date electronic components, which has mean lifetime up to 8 years. Each piece of products is subjected to 100% final inspection.

HIGH EFFECTIVE ALGORITHMS - We use up-to-date effective algorithms for digital signal processing. As a result, we achieved the maximal interference immunity and reliability of the signal processing. The sensors are immune to the influence of rain, snow, fog, lightning, icing, solar radiation, electromagnetic field up to 500 kV, vegetation, birds and animals.

HIGH LEVEL OF INTEGRATION - We make it easy to combine our sensors with many modern integrated security systems and popular control panel. We use traditional dry relay contacts as well as RS-485 and USB interfaces to control the sensors and to transmit the alarm signal.

THE PRINCIPLE OF OPERATION



PERIMETER PROTECTION OF THE OBJECT



INSTALLATION VARIANTS





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DISTINCTIVE FEATURES:


 Available and effective sensor for the protection of different sites with maximum number of positive testimonials.


 Operation on 10.425-10.625 GHz allows to increase the width of the detection zone. Like this we make it difficult for the intruder to cross it.

 The easiest configuration using control units on-board of the Rx and Tx does not require high qualification of staff. Screwdriver enough for configuration.

 More accurate configuration of sensors using special software (under Windows or Android) via USB or wirelessly via bluetooth allows to set the optimal operation mode, also remotely from the guard room via RS-485 interface.

 4 channels of sensors eliminate the influence of adjacent sensors. Like this it is possible to put several sensors near each other.

 The sensor is successfully used on outdoor perimeter sectors more than 5 years free from buildings and big vegetation. The sensor assures reliable protection of the site under control.

 Improved design and signal processing algorithms used to provide the reliable detection of the intruder and high interference immunity.

NO FALSE ALARM ON:



SENSOR COMPONENTS:



Microwave Bistatic Sensors Forteza FMC 10 Series

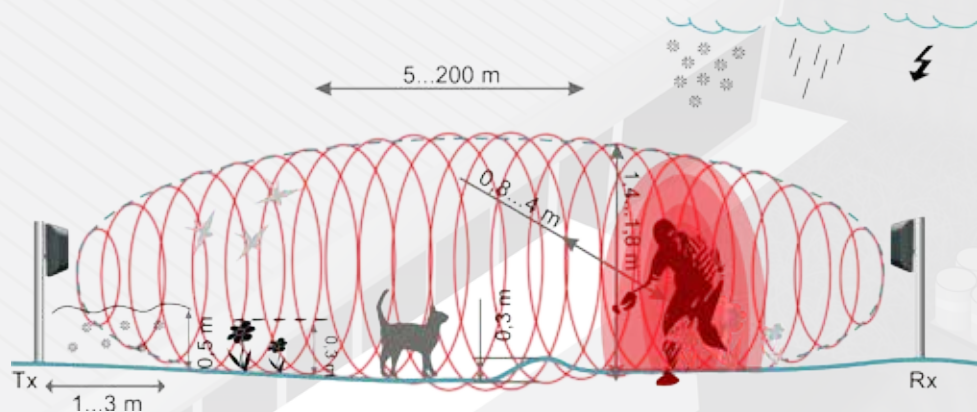
FMC 10 (50m), FMC 10 (100m), FMC 10 (200m)



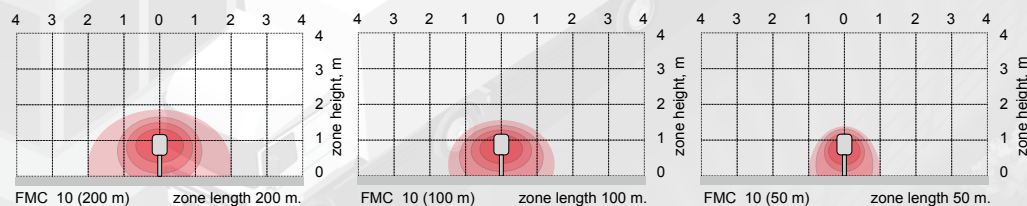
MADE IN LITHUANIA



THE PRINCIPLE OF OPERATION



DIMENSIONS OF THE DETECTION ZONES OF THE SENSORS FMC 10



MAIN SENSORS SPECIFICATIONS

Specification	FMC 10 (50m)	FMC 10 (100m)	FMC 10 (200m)
Operational frequency	10.425-10.625 GHz		
Range	5...50 m	10...100 m	10...200m
Width of the detection zone	0,8...2 m	1...3 m	1...4 m
Height of the detection zone	0,8...1,4 m	1...1,6 m	1...1,8 m
Supply voltage	9...30 V DC		
Current consumption	45 mA (Tx 10 mA, Rx 35 mA)		
Detection probably	not less than 0,98		
Operational temperature	minus 40...+65 °C		
Housing protection level	IP-55		
Alarm output	NC relay contacts (100 Ohm)		
Interfaces	RS-485, Bluetooth (using RS-BL converter)		
Dimensions	207x133x50 mm		
Channels	4 independent channels		