

Detector of jamming GPS/GLONASS signal Model XMD-2

Detector of jamming GPS/GLONASS signal model XMD-2 is dedicated to detect that the Jammer device is in operation and to generate the corresponding output signal on the input of telematics terminal.

Areas of applications: vehicle monitoring and tracking, car alarm and security, ATM security, CCTV or any other security or technological systems which use GPS /GLONASS technologies for their operation.



Specification*

Power supply (VCC)	VDC	9-36
Max. load current	mA	200
Max. consumption current	mA	25
Operational environment temperature	°C	-40 ___ +80
Recognition jamming in the range	MHz	1500-1800
"Diagnostics" output		1 x output (open collector, in active state connected to to GND)
"Status" output		1 x output (open collector, in active state connected to to GND)
The distance at which the recognition of the jamming device with a power of 0.15 W	m.	< 3,0 m.
Dimensions	mm.	35 x 55 x 15
Length of harness of wires	mm.	200
Weight (for reference purposes)	gr.	35

*Supplier reserves the right to change design and specification without prior notification.

Description

The Detector XMD-2 senses jamming the GPS/GLONASS in the range 1500-1600 Mhz and sends signal about detected Jammer's activity.

At the moment of power supply turned ON, the sensor is sniffing the operation of the jamming devices (Jammers). If the operation of such devices ("jammers") is not detected the output signal "diagnostics" (connection to GND) became active until the next power OFF of the Detector. Diagnostic(sniffing) time is 7-10 seconds. Then the Detector switches to the detection "operating" mode.

Important! Avoid operation the GPS SIGNAL JAMMER or similar device during at least 60 (sixty) seconds after power supply to Detector.

In the case of switching ON the "Jammer" devices, a signal is generated at the "Status" output. Time of analysing is 4-6 seconds. After the jamming device stops the operating, the detector switches back to the "operating mode ":

"Diagnostics" output signal is presented;"Status" output is inactive (no signal).

Wiring diagram

BLUE	GND (" - ")
RED	VCC (" + ")
YELLOW	STATUS (shows presence/absence of jamming activity)
BLACK	DIAGNOSTICS (shows Detector's "I am alive" status

Connecting the telematics terminal

1. GND (**blue**) - wire "Minus". Connect to "GND".
2. + U (**red**) - power wire. Connect to a constant "VCC" power spply through a 1A fuse (not included in the supply package).
3. Diagnostics (**black**) - indicates the operating mode (short circuit to GND). Connect to the digital input of the transmitting device (registrar).
4. Status (**yellow**) - indicates the fact of the operation of jamming devices (short circuit to ground). Connect to the digital input of the telematics module.

Installation

The sensor is mounted at a distance of at least 0,2 m from the transmitting GSM antennas.

Prevent moisture (also dew) from entering the sensor housing or condensing on it.

Do not mount in metal boxes places with the poor radio transparency.

