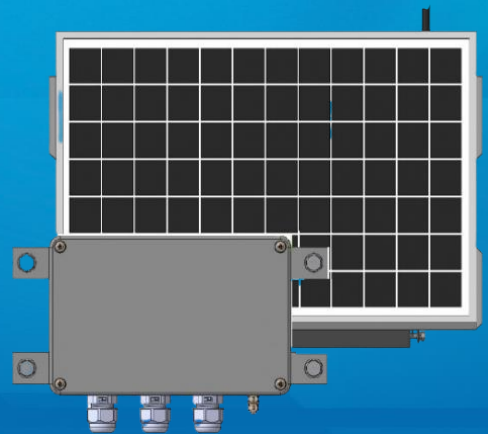


# STS-114

## Security sensor with sensitive elements set



STVF.426479.075

### PURPOSE

STS-114 vibration and seismic security sensor with sensing elements set is designed to detect an intruder crossing a non-fenced perimeter.

### FIELDS OF APPLICATION

- as a stand-alone line intrusion protection device
- as part of integrated facility security systems in combination with detection equipment of other operating principles

### VERSION

- sensor is a processing unit with connected vibration and seismic sensing elements and STS-930 unit
- sensor processing unit is enclosed in a metal casing
- sensor processing unit is designed for mounting on mesh fences
- STS-930 unit is in a metal casing, equipped with a solar module, battery, a radio modem and a controller
- each of the vibration and seismic sensing elements is  $250 \pm 5$  m long special cable with 32 geophones spaced at regular intervals in sealed casings

## FEATURES

- detection of ultra-small ground vibrations caused by the approaching intruder or vehicle
- generating and sending an alarm notification upon crossing a non-fenced line
- alarm notification transmission to the data acquisition and processing system via radio channel
- automatic regular operability check of the processing unit and sensitive elements
- generating a fault notification upon breakage or short-circuit detection
- adjusting the sensor with STS-4922 configuration cable STVF.426471.187 (purchased separately)

## PECULIARITIES

- power supply and radio communication of the sensor processing unit provided by STS-930 unit
- detection zone width may vary depending on soil density
- sensor detection performance increases at low temperatures

## SCOPE OF SUPPLY

Name	Quantity
✓ STS-114 Security sensor with SE set, including:	
– security sensor processing unit S.425129.007	1 pc.
– STS-930 unit STVF.425664.012	1 pc.
– Vibration and seismic sensing element set for STS-114, STS-115 sensors STVF.424921.069	1 set
✓ Passport	1 copy
✓ Operating guidelines*	–
* The operating guidelines are supplied in a single copy when shipped with a batch of products or as part of a system. For single deliveries, the operating guidelines are supplied for each unit Operating guidelines are available at: <a href="http://stilsoft.ru">http://stilsoft.ru</a>	

## RELIABILITY AND WARRANTY

- Warranty operation period - 2 years.
- Average operation period before decommissioning - 8 years (minimum).

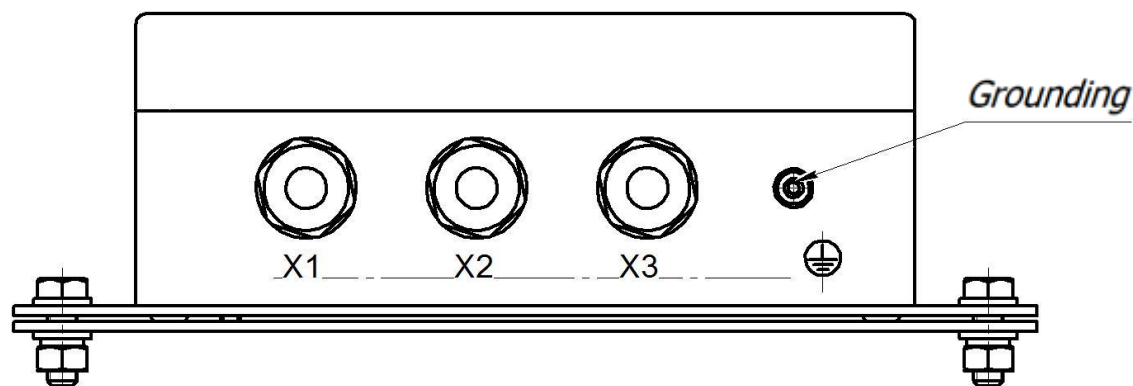
## TECHNICAL PARAMETERS

Parameter name	Quantity
Length of secured section, m	2 flanks 250 m each
Detection probability	0,95
Alarm message: <ul style="list-style-type: none"><li>– transmission frequency, MHz</li><li>– radiated power, mW (maximum)</li></ul>	433,5 10
Line-of-sight alarm transmission range, m	1000
Standby time after power-up, s	60
Alarm recovery time, s	10
Notification duration, s	from 1 to 60
DC power supply voltage, V	12
Battery capacity, Ah	7
Current consumption, mA (maximum)	45
Operating mode	continuous
Operating temperature range, °C	from -40 to +50

Parameter name	Quantity
Overall dimensions, mm:	
– security sensor processing unit	210x126x77
– STS-930 unit with bracket and antenna	351x336x333
Weight, kg (maximum):	
– security sensor processing unit	2
– STS-930 unit without bracket	6,4

## CONNECTION

### Connection of processing unit

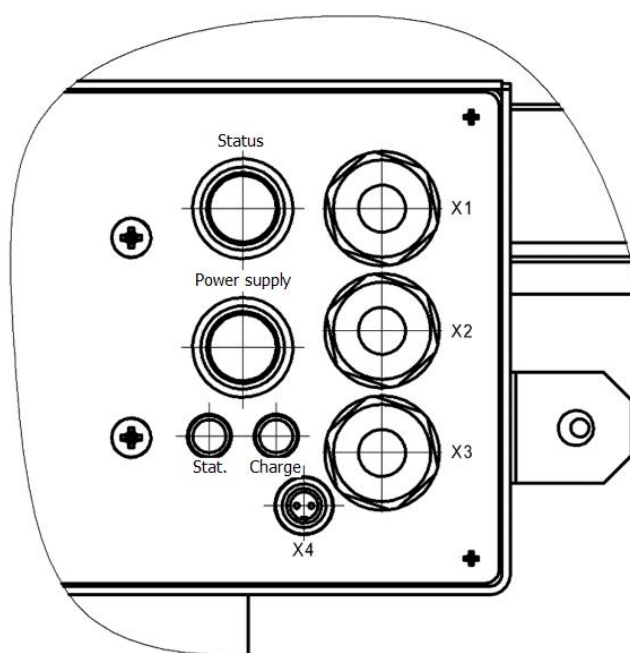


X1 – socket for connecting STS-4922 configuration cable

X2 – socket for connecting left flank vibration and seismic sensing element

X3 – socket for connecting right flank vibration and seismic sensing element

### STS-930 unit connection



X1 – sealed feed-through for connecting security sensor processing unit to STS-930 unit

X2 – sealed feed-through for connecting solar module

X3 – sealed feed-through for antenna connection

X4 – socket for connecting configuration cable



Developed and manufactured in Russia

+7 (8652) 52-44-44

[www.stilsoft.ru](http://www.stilsoft.ru)