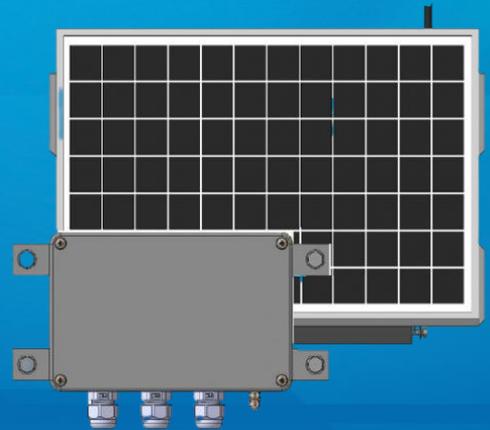


STS-114

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 ± 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: http://stilsoft.ru | |

RELIABILITY AND WARRANTY

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

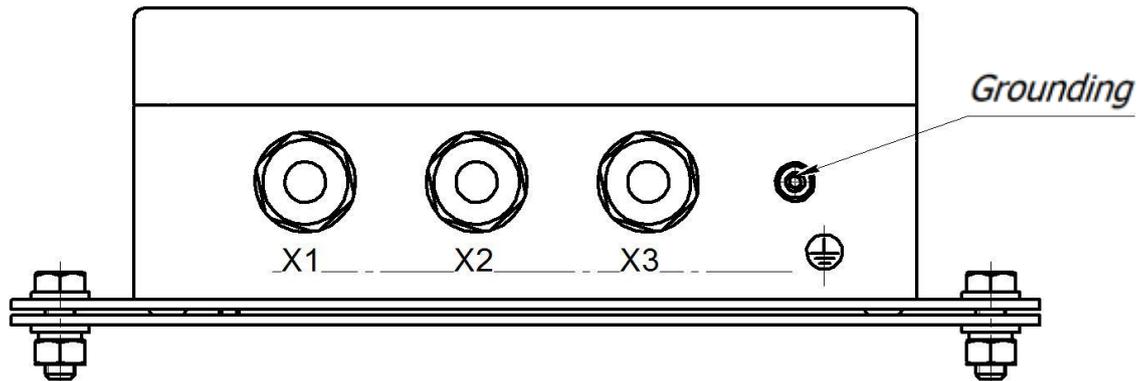
TECHNICAL PARAMETERS

| Parameter name | Quantity |
|---|---------------------|
| Length of secured section, m | 2 flanks 250 m each |
| Detection probability | 0,95 |
| Alarm message: | |
| – transmission frequency, MHz | 433,5 |
| – radiated power, mW (maximum) | 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

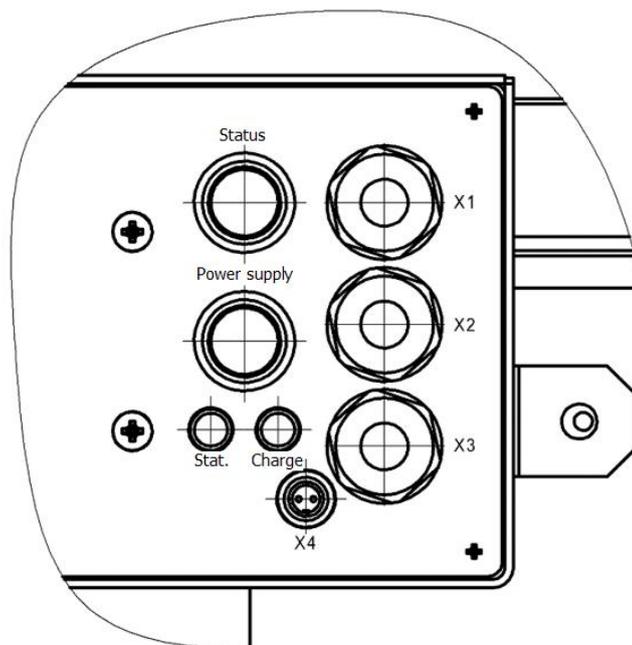


X1 – socket for connecting STS-4922 configuration cable

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

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www.stilsoft.ru