Stilsoft
Russian developer and manufacturer of complex security systems

STS-102

Security sensor

STVF.426479.057

PURPOSE

STS-102 Linear autonomous radio-channel passive optical-electronic security sensor is designed for securing long distances.

FIELDS OF APPLICATION

- securing perimeters, extended lines and State borders
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- as part of BOXWOOD Signaling extended border security system

VERSION

- sensor is housed in a hermetic metal casing with a mounting bracket
- bracket design allows the sensor to rotate ±90 degrees vertically and 360 degrees horizontally against the bracket

FEATURES

- detection of objects moving within the secured area
- alarm triggering in case of intruder detection, casing tampering or battery charge drop below the preset value
- transmission of generated notification via radio channel

PECULIARITIES

- digital processing of the input signal to reduce false alarms

- increased protection against interference
- power supply from a built-in rechargeable lithium element

SCOPE OF SUPPLY

Name	Quantity
✓ STS-102 Security sensor	1 pc.
✓ DD 3.6V power supply unit*	1 pc.
✓ Mounting set STVF.424921.096, including:	1 set
– Painted screw RAL 9003 with press washer 4.2x16 drill	3 pcs.
– Anchor bolt 6x40 (concealed flange)	3 pcs.
– Ziplock bag	1 pc.
✓ Packaging type 1 STVF.305646.003	1 pc.
✓ Passport	1 copy
✓ Operating guidelines**	–
* Power supply unit is pre-installed in the sensor ** 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	

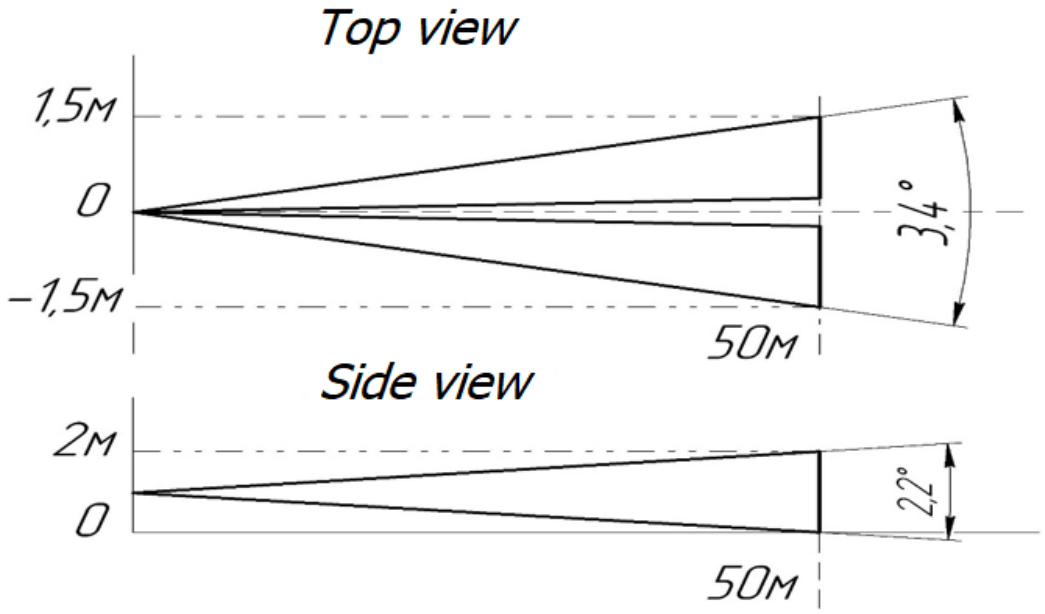
RELIABILITY AND WARRANTY

- Warranty operation period - 2 years
- Average operation period before decommissioning - 10 years

TECHNICAL PARAMETERS

Parameter name	Value
Intruder detection range, m (maximum)	50
Width / height of detection zone at 50-meter distance, m (minimum)	3/2
Intruder speed detection range, m/s	from 0,1 to 5
Intruder detection probability (at 0,9 confidence level)	0,95
Transmitter power, mW (maximum)	10
Alarm transmission frequency, MHz	433,5
Maximum line-of-sight alarm transmission range, m	1000
Readiness time after switching on, s (maximum)	60
Standby restoring time after alarm triggering, s (maximum)	10
Alarm duration, s (minimum)	5
White light tolerance, Lux (minimum)	10000
DC power supply voltage (autonomous), V	3,6±10%
Current consumption, max. mA (maximum): – standby mode – message transmission (pulse)	 0,045 45
Operating temperature range, °C	-40 to +50
Autonomous operation time, (minimum): – with communication control once a day, years – with communication control once per minute, months	 5 3
Overall dimensions (w/o antenna), mm (maximum)	165x95x90
Weight (w/o antenna), kg (maximum)	0,7

DETECTION ZONE CONFIGURATION



CONNECTION

Connector pin designation

Cont. #	Designation
1	LED jumper
2	LED jumper
14	+3.3V jumper
15	+3.3V jumper
16	RS-485-A
17	RS-485-B

Other contacts are not active.

With the "LED" jumper installed, the alarm indication is accompanied by red light from the lens. Sensor default settings: "LED" and "POWER" jumpers are turned off

Developed and manufactured in Russia

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