

STS-108

Security sensor



STVF.426479.014

PURPOSE

STS-108 dual-position radio wave security sensor is designed to detect intrusion into a secured facility and trigger an alarm message.

FIELDS OF APPLICATION

- integrated facility security systems
- perimeter and extended lines security systems
- stand-alone security alarm solution

VERSION

- the sensor consists of a receiver and a transmitter in sealed plastic casing with a unique protection system against condensate
- receiver and transmitter are equipped with universal mounting brackets enabling their installation on $\varnothing 40$ mm poles (via metal clamps) as well as on flat surfaces (via screws or bolts)
- bracket design enables rotation of receiver and transmitter casings at $\pm 10^\circ$ angle

FEATURES

- detecting an object crossing a secured line and triggering an alarm
- generating an ellipsoidal volumetric detection zone of 5 to 200 m in length

PECULIARITIES

- A unique synchronization technology enabling automatic adjustment of the receiver to a specific transmitter and eliminating the interference of surrounding sensors by each other
- detection zone width depends on the distance between the receiver and the transmitter and peaks at the maximum range

SCOPE OF SUPPLY

Name	Quantity
✓ STS-108 security sensor, including:	
– receiving unit	1 pc.
– transmission unit	1 pc.
✓ Self-tapping screw 6,3x16 DIN 7504-K, A2 stainless steel	4 pcs.
✓ Ziplock bag	1 pc.
✓ Packaging type 5 STVF.305646.007	1 pc.
✓ 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. The operating guidelines are available at: http://stilsoft.ru	

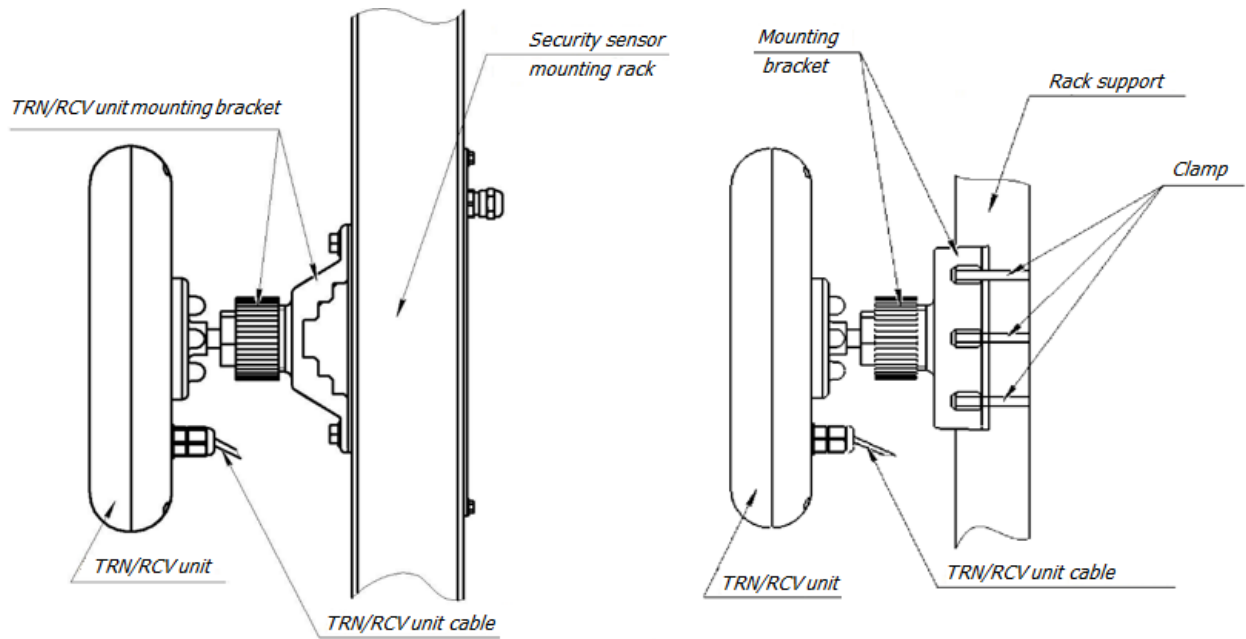
RELIABILITY AND WARRANTY

- Warranty operation period - 2 years.
- Assigned operation period - 10 years.

TECHNICAL PARAMETERS

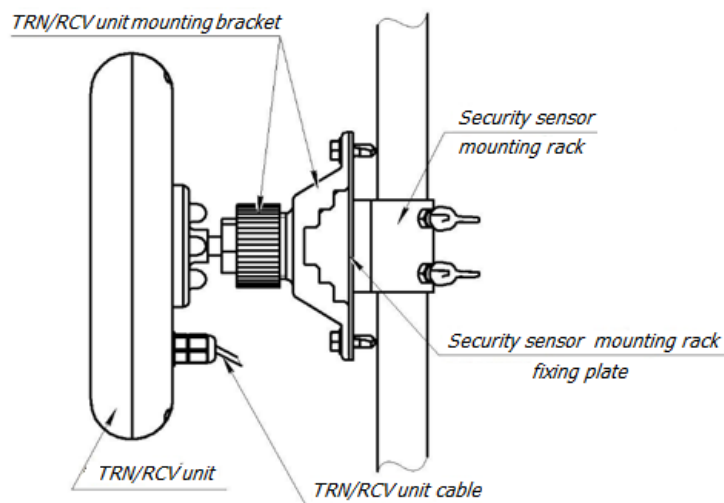
Parameter name	Value
Operating frequency, GHz	10,55
Length of detection zone, m	5 to 200
Maximum width of detection zone, m	4
Maximum height of the detection zone from the installation site, m	1,5
Detectable speed range, m/s	0.1 to 10
Detection probability at confidence level of 0.9, minimum	0,98
Standby time after power-up, s (maximum)	30
Alarm recovery time, s (maximum)	10
Alarm duration, s (minimum)	3
Information output	relay
DC supply voltage, V	10,2-36
Current consumption at 12V supply voltage, mA (maximum)	50
Mean time between false alarms, h (minimum)	1200
Mode of operation	24/7
Operating temperature range*, °C	от -40 до +60
Overall dimensions of receiving and transmitting unit (with bracket), mm	210x210x141
Mass, kg	2

MOUNTING



Mounting with security sensor mounting rack

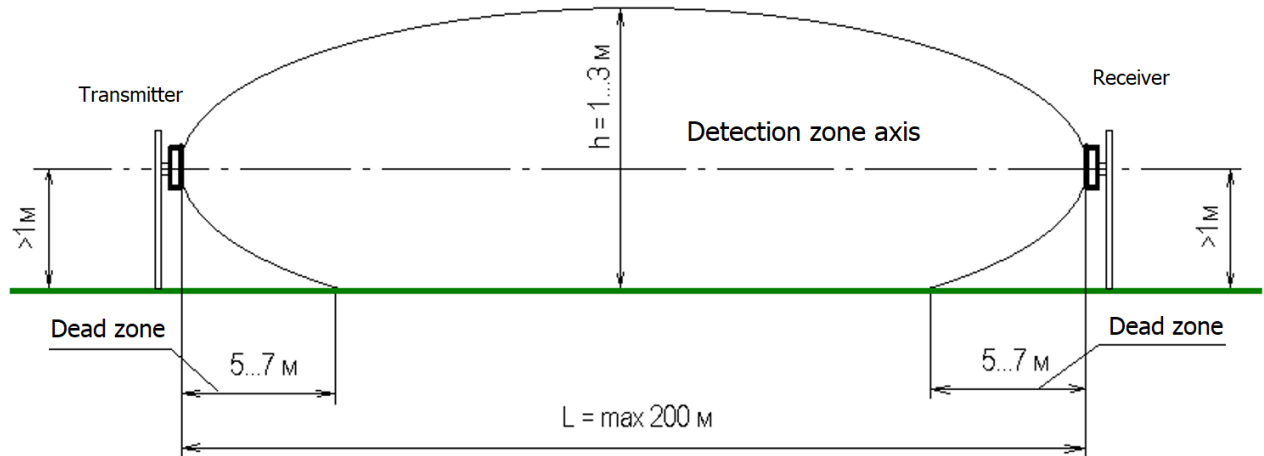
Mounting on round support with clamps



Mounting with seasonal height adjustment option*

*When mounting the sensor, it is important to facilitate easy rearrangement of sensor units on the mounting frame during seasonal adjustments. For this purpose, it is recommended to install the product on the "Mounting bracket for security sensors STAE.301568.004", and the bracket - on the "Mounting bracket for security sensors STAE.301317.001" or the "Mounting bracket for security sensors STVF.301317.015" (brackets and racks are not included in the supply set).

UNIT LOCATION LAYOUT



CONNECTION

Receiver unit cable designation

Wire color	Designation
Orange	+Upow
White and blue	-Upow
Green	Alarm
White-green	«-»
White-brown	Processing algorithm selection
Brown	Synchronization algorithm selection

Transmission unit cable designation

Wire color	Designation
Orange (brown)	+Upow
White-orange (white-brown)	-Upow

* Detailed configuration of STS-108 is described in Operating guidelines



Developed and manufactured in Russia

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www.stilsoft.ru