

# STS-103

## Security sensor



STVF.426479.056

### PURPOSE

STS-103 Linear passive optical-electronic security sensor is designed for securing extended sections.

### FIELDS OF APPLICATION

- security systems for perimeters, extended lines
- as part of integrated facility security systems

### VERSION

- the sensor is enclosed in a metal, dust and moisture-proof casing with a Fresnel lens on the front panel
- casing is equipped with a mounting bracket
- bracket design allows the sensor to rotate  $\pm 90$  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 and its transmission via wired interface
- an alarm follows with a red light in the lens with the corresponding settings in the configurator

### PECULIARITIES

- digital processing of the input signal to reduce false alarms
- sensor detection performance adjustment via RS-485 interface as well as manually via the sensitivity regulators

## SCOPE OF SUPPLY

Name	Quantity
✓ STS-103 Security sensor	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.
✓ Spare parts set-O, including:	1 set
– Mini jumper SW-2	1 pc.
– Screw M4x20 DIN 965 A2 stainless steel AISI 304	2 pcs.
– Ziplock bag	1 pc.
✓ Packaging type 1 STVF.305646.003	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 Operating guidelines are available at: <a href="http://stilsoft.ru">http://stilsoft.ru</a>	

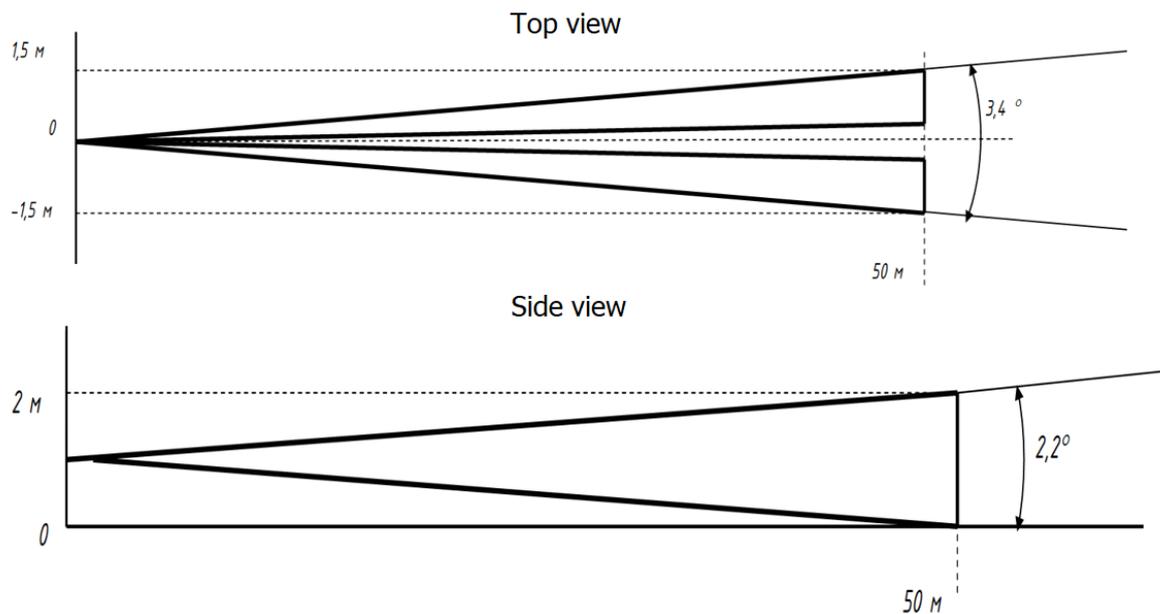
## RELIABILITY AND WARRANTY

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

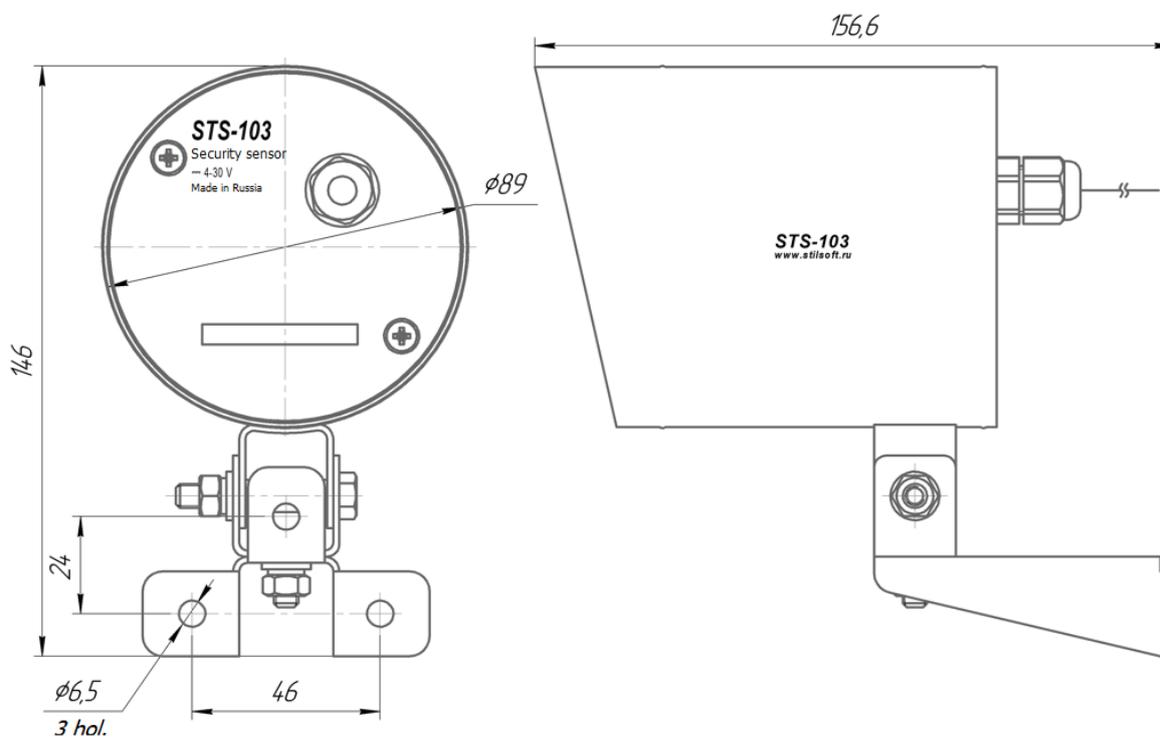
## TECHNICAL PARAMETERS

Parameter name	Quantity
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
Standby time after power-up, s (maximum)	15
Alarm recovery time, s (maximum)	10
Alarm duration, s (minimum)	5
White light tolerance, Lux (minimum)	20000
Mean time between false alarms, h	1200
Information output	Relay, RS-485
Actuating relay:	
– commutated voltage, V (maximum)	72
– commutated current, A (maximum)	0,13
DC power supply voltage, V	9-30
Current consumption, max. mA (maximum) at power supply voltage:	
– 9V	6
– 12V	5
– 30V	3
Operating mode	continuous
Version	IP65
Operating temperature range, °C	from – 40 to +50
Overall dimensions, mm (maximum)	165x95x90
Weight , kg (maximum)	0,9

## DETECTION ZONE CONFIGURATION



## OVERALL AND INSTALLATION DIMENSIONS



## CONNECTION

Sensor cable contact designation

Wire color	Designation
White	General
Brown	Power supply +
Green	RS-485 A
Yellow	RS-485 B
Grey	Remote control
Pink	Tamper sensor
Blue	Tamper sensor
Red	Alarm relay
Black	Alarm relay



Developed and manufactured in Russia

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