STS-125

Security Sensor

STVF.426479.046

PURPOSE

STS-125 Passive single-position optical-electronic security sensor is designed for intrusion detection in the secured area and generating an alarm message.

FIELDS OF APPLICATION

- standalone detection device
- additional detection tool to eliminate dead zones of sensors with other principles of operation
- as part of integrated security systems of the facility

VERSION

- the sensor is a plastic casing, dustproof, containing the board with electronic components
- sensitive element lens is placed on the front panel of the casing
- there is a bracket on the housing for fixing the sensor
- the casing is equipped with light indicators to control operability

FEATURES

- forming the scanning area from narrow alternating sensitive and inactive zones
- registering changes in the level of infrared radiation caused by objects' movement in the detection area and triggering an alarm message
- sensor sensitivity adjustment
- covert triggering option without light indication

PECULIARITIES

- 24/7 operation with correct temperature control
- remote control of sensor operability
- low probability of false alarms

SCOPE OF SUPPLY

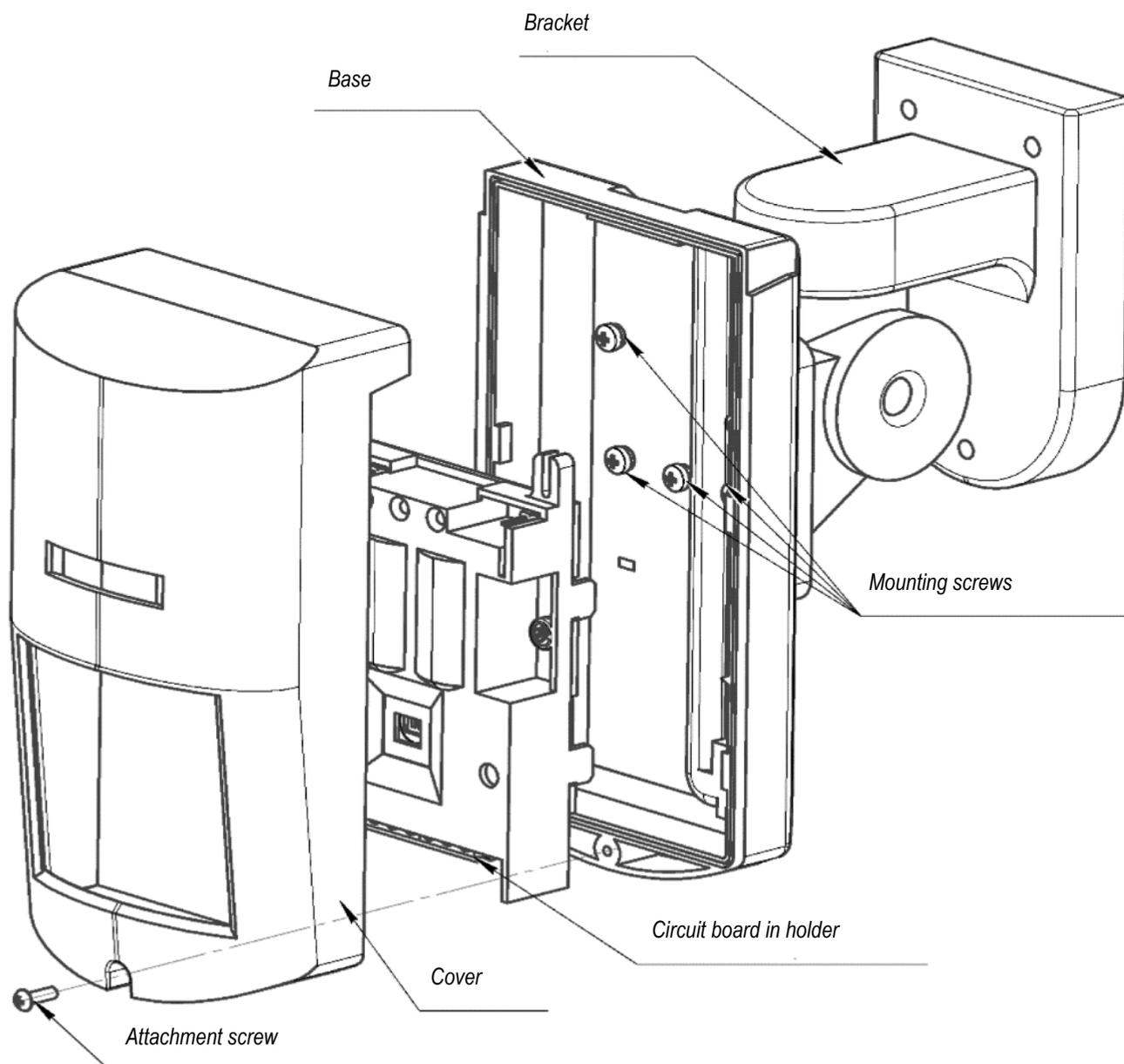| Name	Quantity
✓ STS-125 Security sensor	1 pc.
✓ Mounting set STVF.425951.074, including:	1 set
– Ziplock bag	1 pc.
– Screw 4,2x51	3 pcs.
✓ Spare parts set-O, including:	1 set
– Ziplock bag	1 pc.
– Screw 4,2x51	3 pcs.
✓ Packaging type 1	1 pc.
✓ Passport	1 copy
✓ Operating guidelines *	–
* The operating 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: http://stilsoft.ru	

RELIABILITY AND WARRANTY

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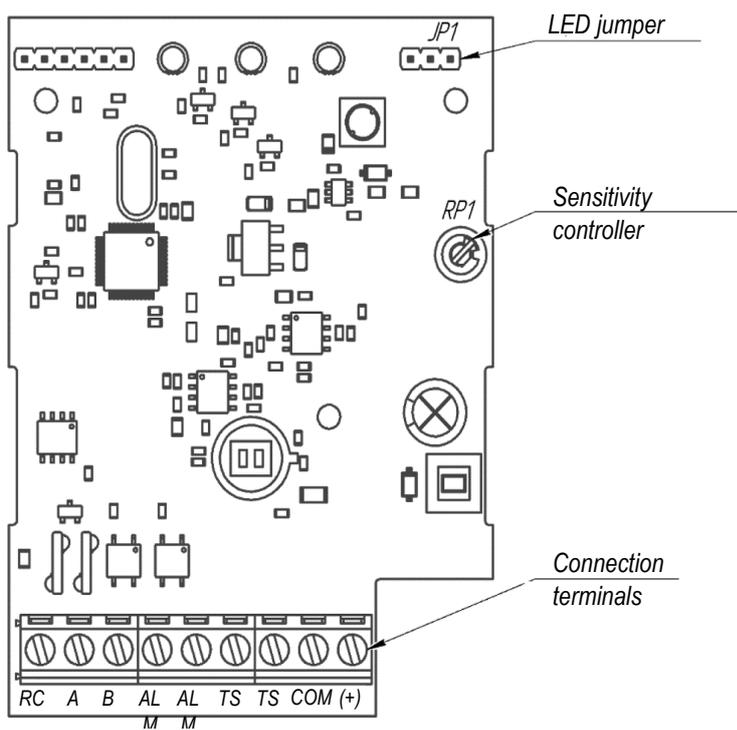- Assigned operation period - 10 years

TECHNICAL PARAMETERS

Parameter name	Value
Maximum detection range at 90 °horizontal view angle, m (minimum)	12
Intruder speed detection range, m/s	from 0.3 to 3.0
Intruder detection probability (minimum)	0.98
Technical readiness time, s (maximum)	30
Standby restoring time after alarm triggering, s (maximum)	10
Alarm duration, s	2
Data output	relay, RS-485
Sensor informativity via loop	5
Sensor informativity via RS-485 bus	8
Product interference immunity from AC-powered electrical lighting devices, lux (minimum)	2000
Product interference immunity from the sun and DC-powered light sources, lux (minimum)	30000
DC power voltage, V	8-30
Current consumption in standby and ALARM mode, at nominal voltage (maximum)	30
Alarm triggering upon tampering the casing	Yes
Sensor vertical/horizontal rotation, deg. (minimum)	±15 / ±90
Mean time between false alarms, h (minimum)	1200
Protection against solid bodies (dust) and water ingress	IP 54

Parameter name	Value
Operation mode	Continuous
Operating temperature range, °C	-40 to +50
Overall dimensions with bracket, mm	155x75x145
Weight, kg (maximum)	0.5

MOUNTING

Bracket

Base

Mounting screws

Circuit board in holder

Cover

Attachment screw

CONNECTION

Cont #.	Designation	Circuit
1	RC	Remote control
2	A	RS-485 A
3	C	RS-485 B
4	ALM	Alarm relay
5	ALM	Alarm relay
6	TS	Tamper sensor
7	TS	Tamper sensor
8	COM	Common
9	(+)	Power supply +