

NEW



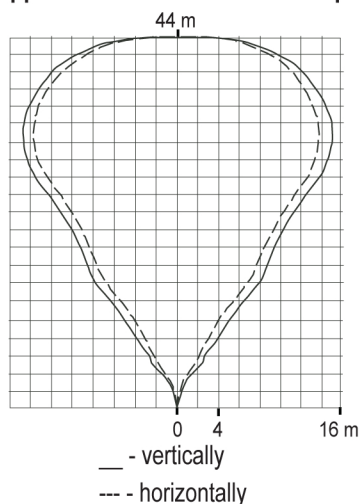
AGAT-SP5U

The AGAT-SP5U is a microwave volumetric security detector designed for motion detection of an intruder in protected areas both indoors and outdoors.

Features

- microchip with enhanced performance
- enhanced noise immunity
- extra mode adjustments
- enhanced immunity to electromagnetic noise
- enhanced housing design
- mounting bracket ensures easy positioning
- switch boxes are easily connected to the detectors
- anti-dust and water resistant housing (IP55)

Approximate detection zone shape



Specifications

Operating frequency, GHz	9.5±0.25
Detection zone range, m	10-40
Detection zone width (detection zone length is adjusted to the max), m	at least 20
Detection zone height (detection zone length is adjusted to the max), m	at least 32
Detection zone area (detection zone length is adjusted to the max), m ²	400
Detection speed range, mps	0.3 - 3.0 radial direction 0.3 – 6.0 peripheral direction
Installation height, m	at least 3
DC power supply voltage, V	12 - 24
Current draw (in STANDBY and ALARM modes), mA	100
Warm-up time after power up, sec	60
Warm-up time after ALARM message generation, sec	10
Alarm message duration, sec	2
Detection probability	0.98
Operating temperature range, °C	- 40...+65
Relative humidity	100%
Device size, mm	160x115x75
Weight, kg	0.6
Average life time, years	8
Trouble free time, hours	60 000
Warranty, months	18

Attention

It is recommended to apply the following devices that are available by an additional order:

- the RADIY-BP voltage converter (0.5 A, 24 V) if AC power supply (220 V) is available
- a switch box
- PK-AGAT for carrying out control and adjustment of the detector
- a visor

The detector is tolerant to:

1. impulse noise in power supply and signalling circuits
2. electromagnetic interference due to radio-frequency fields
3. electric discharges
4. moving transport 30 m beyond the detection zone if the detection length is adjusted to the max
5. small animals and birds' motion at a distance of more than 2 m away from the detector in the detection zone
6. interference from neighbouring detectors

if the distance between them exceeds 2 m

7. wind up to 25 mps
8. precipitation up to 20 mm per hour
9. exposure to solar radiation
10. terrain flatness ±0.3 m
11. grass up to 0.2 m
12. snow depth up to 0.4 m
13. interference created by electricity transmission lines with the voltage of 500 kV, if they are located at a distance of 30 m away from the detector
14. ultra short wave radio stations broadcasting in 150 - 175 MHz frequency range with up to 40 W output at least 5 m apart from detector units
15. fluorescent lamps installed at a distance of more than 2 m away from the detector

The set includes

Item	Quantity
Transceiver unit	1
Initial assembly kit	1
User's manual	1