

**Name CVD-123 Security Sensor**

**Indication** CTBΦ.425151.002



**Purpose**

CVD-123 infrared security sensor is applied to detects changes in infrared range caused by intruders moving through the detection pattern.

Consists of separate transmitter and receiver.

CVD-123 - Digital twin beams detector incorporated in plastic case. Enables lens alignment angle at  $\pm 10^\circ$  (vertical) and  $\pm 90^\circ$  (horizontal). Internal heating ensures flawless operation in temperatures from  $-40$  to  $+50^\circ\text{C}$ .

CVD-123 outputs an alarm when the infrared pulse beam emitted from its transmitter is not received by the receiver for a certain period of time.

CVD-123 can be mounted on a pole and on fencing.

CVD-123 consists of:

- transmitter – 1 pc.;
- receiver – 1 pc.
- mounting kit – 1 set

Receiver and transmitter are placed facing each other at the opposite sides of protected area. Transmitter emits IR beams heading receiver. Movement within the detection zone between receiver and transmitter triggers alarm. Receiver transmits

alarm to controller by means of wired communication. Controller then forwards information to data collection and processing system.

### **Application.**

CVD-123 can operate independently or as a part of perimeter security systems.

### **Technical Features**

Parameter	Value
Detection area length, m	1-100
Number of synchronized IR beams, pcs.	2
Number of operating IR channels, pcs.	4
DC voltage, V	from 10 to 30
Max input current @ 12V voltage, mA: - receiver - transmitter	80 20
Heater consumed current @ 12V, A	0,15
Adjustable beam response time, ms	from 50 to 700
Item sensitivity to AC powered lighting devices, lx	2000
Item sensitivity to solar light and DC powered lighting devices, Lx	30000
Optical signal depreciation factor (at max range), not less	100
Max optical loss (at max range), %	99
Wave length, over, nm	760
Alarm generation at open output circuit contacts	Yes
Informativity	3
Sensor warm-up time, s	45
Efficient illumination width, cm	20
Alarm duration time, not less: – ms; – s	50 2
Recovery time, not more, s	10
Tamper switch	Да
Beam alignment angle, vertical, not less, °	±10
Beam alignment angle, horizontal, not less, °	±90
Alarm and Power LED	Yes
7-segment signal indicator	Yes

Parameter	Value
Signal voltage control	Yes
Operating mode	Continuous
Unit interchangeability	Yes
Mean time between false alarms, h	1200
Mean time between failures alarms, h	60000
Operating temperatures, °C	from -40 to +70
Overall dimensions of each unit, mm	170x81x78
Weight, kg	1

These security sensors can secure the border line with 0.98% detection rate.