

AGATE

OUTDOOR CURTAIN MOTION DETECTOR

AGATE is an outdoor curtain motion detector which belongs to the group of perimeter protection devices. It is ideally suited for use both on the outside of the protected building, and in the interiors where difficult or specific environmental conditions prevail (in halls, shelters, sheds etc.). The AGATE detector has two motion detection circuits – PIR and MW, and uses active IR anti–masking (for indoor use). Thus, it meets the high security requirements specified in **EN 50131** for **Grade 3**: the detector can be used to protect the interiors of high medium to premises, like banks, museums, jewelry stores, etc.

The dual technology, in conjunction with the algorithm of detector auto–tuning to the environmental conditions, provides high immunity to false alarms and hence stable operation in harsh weather conditions, such as rain, snow, sunshine and strong gusts of wind. The device offers correct performance in a wide range of temperatures from -40°C to $+55^{\circ}\text{C}$, the ambient temperature changes being automatically compensated.

The AGATE curtain detector is characterized by a narrow detection angle of only 10 degrees and a range of 14 m. At that distance, the emitted beam (curtain) has a width of approx. 1 m. Sensitivity of the detection circuits is controlled by two independent potentiometers located on the detector electronics board.

What is also unique is the device enclosure, which is made using the two–component injection molding technology. The thus received splash–proof, IP54 rated design protects the AGATE electronics against harmful atmospheric phenomena. In addition, the detector enclosure has high mechanical strength and is resistant to UV radiation.

Design of the AGATE detector enables it to be mounted directly on a flat surface. The detector can also be mounted using a dedicated angle bracket (at fixed 90° inclination angle).

- two detection circuits: PIR and microwave
- active IR antimasking for indoor applications
- splash–proof polycarbonate enclosure, **IP54** rated
- tamper protection against opening and removal from mounting surface
- configuration of detection circuit sensitivity with onboard potentiometers
- low current consumption
- can be installed directly on flat surface or by using dedicated angle bracket

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TECHNICAL DATA

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| Supply voltage | 12 V DC |
| Detected target velocity | 0,2...3 m/s |
| Operating temperature range | $-40...+55^{\circ}\text{C}$ |
| Recommended mounting height | 2,4 m |
| Standby mode current consumption | 21 mA |
| Max. current consumption | 25 mA |
| Weight | 92 g |
| Maximum humidity | 93±3% |
| Dimensions | 44 x 105 x 40 mm |
| Environmental class according to EN50130-5 | IIIa |
| Alarm signaling time | 2 s |
| Complied with standards | EN50131-1, EN 50131-2-4, EN50130-4, EN50130-5 |
| Microwave frequency | 24,125 GHz |
| Warm-up period | 45 s |
| IP code | IP54 |
| Security grade (detector mounted directly to the wall) | Grade 3 |