

# AOCD-250

## WIRELESS OUTDOOR CURTAIN MOTION DETECTOR

AOCD-250 is an outdoor curtain motion detector which belongs to the group of perimeter protection devices. It is designed to work as part of the two-way wireless **ABAX** system. 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 AOCD-250 detector has two motion detection circuits – PIR and MW. 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  $-40^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$ , with the ambient temperature changes being automatically compensated.

The AOCD-250 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. It is possible to install an accessory enclosure cover with the Fresnel lens **AOCD-CL**, which has an increased beam density and offers a maximum detection range of 10 m. Sensitivity of the detection circuits is configured remotely by using the **DLOADX** program. Because of the efficient energy management, the detector can operate for a long time – up to three years – without battery replacement.

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 AOCD-250 electronics against harmful atmospheric phenomena. In addition, the detector enclosure has high mechanical strength and is resistant to UV radiation.

Design of the AOCD-250 detector enables it to be mounted directly on a flat surface. The detector can also be mounted using a dedicated angle bracket (at fixed  $90^{\circ}$  inclination angle). When installing the detector inside the building, you can also use adjustable brackets such as **BRACKET A** or **BRACKET B**.

The AOCD-250 detector curtain meets the EN 50131 Grade 2 security requirements.

- two detection circuits: PIR and microwave
- splash-proof polycarbonate enclosure, **IP54** rated
- tamper protection against opening and removal from mounting surface
- remote configuration of detection circuit sensitivity from **DLOADX** program
- can be installed directly on flat surface or by using dedicated angle bracket
- power source: 3 V CR123A lithium battery



## TECHNICAL DATA

Battery working time (in years)	up to 3
Detected target velocity	0,3...3 m/s
Operating temperature range	-40...+55 °C
Recommended mounting height	2,4 m
Max. current consumption	20 mA
Weight	118 g
Maximum humidity	93±3%
Operating frequency band	868,0 ÷ 868,6 MHz
Radio communication range (in open area)	up to 500 m
Battery	CR123A 3V
Standby current consumption	35 µA
Dimensions	44 x 105 x 40 mm
Environmental class according to EN50130-5	IIla
Complied with standards	EN50131-1, 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 2