

GRAPHITE

ADVANCED DIGITAL MOTION DETECTOR

The GRAPHITE passive infrared detector detects movement in a protected area. The large coverage area (over 100 m²) has been achieved owing to the patented geometry of Fresnel lenses. Hence, fewer detectors are needed for effective protection, installation is simple, and investment costs are low.

Operation of the device is based on a digital motion detection algorithm. Digital temperature compensation ensures effectiveness of the detection by adjusting sensitivity to the temperature in the room. The sensitivity of detection is continuously adjustable, hence parameters of the detector can be adjusted precisely to the size of the room and the conditions prevailing in it.

A useful solution is switching remotely on/off the violation indicating LED (without opening the detector enclosure). As a result, the LED can be turned on e.g. when testing the alarm system, and turned off in the normal operation mode so as to make the detector less conspicuous.

The alarm memory signaling function allows you to check which of the detectors has initiated alarm, without having to watch the state of the control panel. Security of the detector operation is provided by monitoring the signal path and power supply as well as the tamper switch.

- high quality dual element pyrosensor
- new generation DSP and analysis algorithm
- precise LODIFF Fresnel sealed optics
- digital temperature compensation
- remotely triggered test mode
- alarm latch feature
- adjustable mounting bracket included
- built-in EOL resistors



TECHNICAL DATA

Supply voltage	12 V DC
Detected target velocity	0,3...3 m/s
Operating temperature range	-30...+55 °C
Recommended mounting height	2,4 m
Standby mode current consumption	14 mA
Max. current consumption	14 mA
Weight	94 g
Relay contacts rated load (resistive)	40 mA / 16 V DC
Maximum humidity	93±3%
Dimensions	63 x 96 x 49 mm
Environmental class according to EN50130-5	II
Alarm signaling time	2 s
Complied with standards	EN50131-1, EN50131-2-2, EN50130-4, EN50130-5
Security grade according to EN50131-2-2	Grade 2
EOL resistors	2 x 1,1 k
Warm-up period	30 s