

# MotionProtect Plus Fibra

Wired indoor motion detector with an extra microwave sensor

<ul style="list-style-type: none"><li>● Microwave sensor verify PIR sensor's alarms</li><li>● Immunity to pets with a weight of up to 20 kg and height up to 50 cm</li><li>● Energy consumption up to 50 <math>\mu</math>A</li><li>● Remote control and setup</li><li>● Hassle-free installation</li></ul>	<ul style="list-style-type: none"><li>● Software filter against false alarms</li><li>● Temperature compensation</li><li>● Two colours casing</li><li>● Fibra line connection up to 2,000 m</li><li>● Data-rich notifications</li></ul>
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MotionProtect Plus Fibra – is the device of the new Fibra wired product line. Such devices can only be purchased, installed and administered by accredited Ajax partners.

## Communication protocol Fibra

The new wired line of Fibra devices has inherited all the advantages of the Jeweller wireless line. Data transmission that is encrypted and protected from sabotage, unprecedented range and energy efficiency, remote control and maintenance, the fastest possible installation.

Jeweller and Fibra technologies are combined to build complex protection regardless of facility size, steel or concrete obstructions. Security is enhanced by informative notifications, photo verification of alarms, real-time system control in the app, and automation scenarios.

## Precise motion detection in a complex environment

**MotionProtect Plus Fibra** – this is the device as a part of an advanced motion detection system, the microwave sensor is activated only when the PIR sensor is triggered. This additional check makes motion detection accurate even in premises with complex thermal interference, such as operating air conditioners, fireplaces, and strong draughts

## Pet immunity

When properly installed and configured, **MotionProtect Fibra** ignore animals that are up to 50 cm in height and weigh up to 20 kg.

To assess the threat, motion detectors use the SmartDetect software algorithm developed by Ajax Systems. When motion is detected, SmartDetect analyzes the signal waveform of the infrared sensor and compares it with values specific to human motion.

Because of the heat spot of an animal is small and the signals enter the lower zone of the Fresnel lens (which transmits less radiation to the sensor), the detector does not raise an alarm.

## Temperature compensation

**MotionProtect Plus Fibra** track the movements of heat-emitting objects. They are configured in such a way as to react to people from their first steps in the protected area and to filter out false signals from natural interference and animals.

Temperature compensation is implemented at the software level and is based on regular measurements of the ambient temperature by the detector. At an ambient temperature of 14°C to 42°C, with each measurement, the detector introduces a correction according to the table of correction factors stored in its memory, i.e., either increases or decreases the sensitivity of PIR sensors.

## Technical specifications

<b>General settings</b>	
Classification	Optical-electronic wired security detector
Color	White, Black
Installation method	Indoors
Type of detector	Wired
<b>Limitations</b>	
Compatibility	Hub Hybrid (2G) Hub Hybrid (4G)
<b>Communication</b>	
Fibra protocol	Transmission of events and alarms  Alarm delivery time: 0.15 s
Recommended cable type for detector connection	Signal cable (4×0.22 copper)  Twisted pair U/UTP cat.5 (4×2×0.51)

Connection wire length	Up to 2000
Polling interval	From 12 to 300 seconds (set by admin in the app)
<b>Sensor parameters</b>	
Sensing element	Passive IR sensor Microwave sensor
Sensitivity	Adjustable, 3 levels
Motion detection distance	Up to 12 meters
Detector angle	Horizontal – 88.5° Vertical – 80°
Motion detection speed	From 0.3 to 2.0 m/s
Pet immunity option	Yes.  The detector does not react to animals up to 50 cm tall and weighing up to 20 kg when properly installed and configured.  <a href="#">Learn more</a>
<b>Anti-sabotage protection</b>	
Tampering alarm	Yes
Protection against forgery	Yes
<b>Power supply</b>	
Detector power supply	24 V <sub>DC</sub> , up to 3 A
Current consumption	97 µA (average value)
<b>Enclosure</b>	
Dimensions	110 × 65 × 50 mm
Weight	96 g
Operating temperature range	From -10°C to +40°C
Operating humidity	Up to 75%

Protection class	IP50
Service life	10 years