AirMD-100 | Motion detector
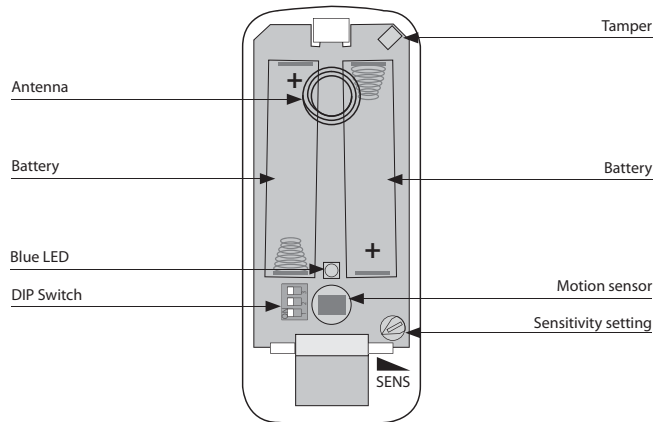

- The PIR motion detector is used to detect people moving in the interior.
- PIR sensitivity settings to eliminate unwanted switching.
- The detector offers a quick and comfortable solution for detecting motion in an object. It's just a simple installation at the location.
- The Sigfox, LoRa or NB-IoT network can be used for message transmission.
- Anti-sabotage function (tamper): When unauthorized interference with the detector occurs (disassembly) it sends an information message to the server.
- Data is sent to the server from which it can be subsequently displayed as a smartphone, application, or Cloud notification.
- Battery status information is sent as a message to the server.
- Power supply: battery 2x 1.5 V AA.
- The Disarm is done either with a message from the server or by using the AirKey key fob that communicates with the detector wirelessly.

Technical parameters	AirMD-100S	AirMD-100L	AirMD-100NB
Power supply			
Battery power:	battery 2x 1.5V AA		
Battery life by frequency *:			
1x 10 minutes	0.3 year	1.4 year	1.2 year
1x 60 minutes	1.1 years	2 years	1.1 years
1x 12 hours	1.6 year	2 years	1.9 year
1x 24 hours	2 years	2 years	2 years
Setting			
Alarm Detection:	message to the server, audible alarm		
Battery status view:	only when the battery is powered by a message on the server		
Indication			
- blue LED:	motion detected		
Programming:	DIP Switch 3		
Detection angle:	105°		
Detection distance:	max. 12 m		
Recommended working height:	max. 2.2 m		
Communication			
Protocol:	iNELS RF Control		
Transmitter frequency:	868 MHz		
Range in open space:	up to 100m		
Protocol:	Sigfox	LoRa	NB-IoT
Transmitter frequency:	RCZ1 868 MHz	868 MHz	LTE Cat NB1**
Range in open space:	Approx. 50 km***	Approx. 10 km***	Approx. 30 km***
Transmission power (max.):	25 mW / 14 dBm	25 mW / 14 dBm	200 mW / 23 dBm
Other parameters			
Working temperature:	0…+50°C (Pay attention to the operating temperature of batteries)		
Storage temperature:	-30…+70°C		
Operating position:	vertical		
Mounting:	glue / screws		
Protection degree:	IP20		
Color:	white		
Dimension:	46 x 105 x 43 mm		
Weight:	62 g (without battery)		

* Values are calculated without activating the alarm, which is energy intensive
** Multiple frequency bands of B1 / B3 / B5 / B8 / B20 / B28
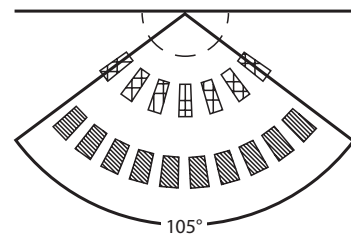*** Depending on network coverage

Description

Function

If no movement is detected by the motion detector for 15 minutes, the guard will be activated automatically.

Data status report sent at a max of four-hour intervals (You can edit the message from the server).

Disarm (DISARM)
When capturing motion in the guard state, the blue LED lights up and an uninterrupted beep sounds at the same time. Press the button ⌂ on the Air-Key Controller. The audible alarm is switched off and the transition to the DISARM status is confirmed by a short beep.
If the guard is not switched off within 5 seconds, the audible alarm turns off and the detector sends the alarm to the user.
If the detector is deactivated by the AirKey controller, it does not transmit the motion detection information to the user.

Detection field - the detection area is covered by three cones

Top view range

Side view range