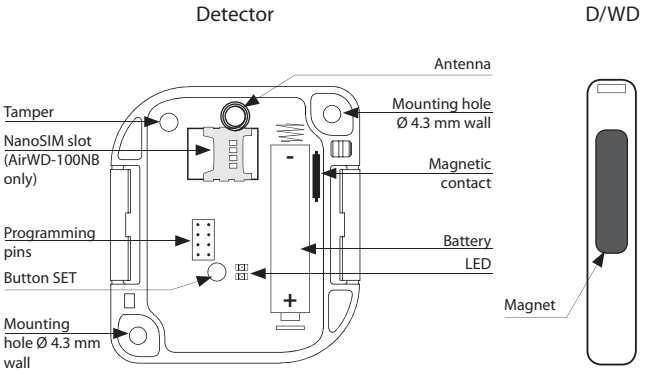
AirWD-101 | Magnetic detector (outdoor)

- The magnetic detector is used to detect motion – it is activated by attaching / removing the magnet from the sensor.
- The Sigfox, LoRa or NB-IoT network can be used for message transmission.
- 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.
- Anti-sabotage (tamper): If the device is tampered with, the message is immediately sent to the server.
- Power supply: 1x 3.6 V batteries SAFT with approx. 5 years (depending on the frequency of use).
- Protection degree IP65.

Technical parameters	AirWD-101S	AirWD-101L	AirWD-101NB
Power supply			
Battery power:	1x 3.6V LS 14500 Li-SOCl$_2$ AA		
Battery life:	max. 5 years (Depending on the type of sensing and pulse frequency and transmission)		max. 3 years
Standby consumption:	0.2 mW		
Transmitting power consumption:	250 mW	150 mW	850 mW
Setting			
Setting:	Using a message from the server, the programming cable		
Alarm Detection:	message to the server		
Battery status view:	message to the server		
Control			
Control:	Button SET Magnetic contact Tamper		
Detection			
Closed:	< 1.5 cm		
Open:	> 2 cm		
Reliability:	99.9 %		
Sensor:	Reed magnetic contact		
Communication			
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:	-30... +60 °C (Pay attention to the operating temperature of batteries)***		
Storage temperature:	-30 .. +70°C		
Operation position:	vertical		
Mounting:	glue / screws		
Protection degree:	IP65		
Detector Dimension / Weight:	70 x 62 x 34 mm / 43 g (without battery)		
Magnet D/WD**** Dimension / Weight:	15 x 75 x 13 mm / 13 g		

* Multiple frequency bands of B1 / B3 / B5 / B8 / B20 / B28
** Depending on network coverage
*** Pay attention to the operating temperature of batteries -60...+85 °C
**** Included in the package

Device description



Function

Activation occurs when the magnet is attaching / removed from the sensor.
The detector sends a data message every 12 hours. In case of a state change, it sends the data message immediately.