RADIY-DM

The RADIY-DM is a linear radiowave detector designed for intruder detection in protected area.

Features

- extended detection zone
- no dead zones
- low sensitivity to vibrations
- anti-dust and water resistant housing (IP55)
- explosion-proof housing
- the mounting bracket enables sensor rotation and easy positioning

Attention

It is recommended to apply the following supplementary devices that are available by an additional order:
- the RADIY-BP voltage converter (0.5 A, 24 V) if AC power supply (220 V) is available
- a switch box

The detector does not create false alarms due to the following factors:

1. motion beyond the detection zone
2. small animals and birds' motion at a distance of more than 1 m away from the detector in the detection zone
3. precipitation (rain and snow)
4. exposure to solar radiation
5. wind up to 30 mps
6. terrain flatness ±0.3 m
7. grass up to 0.3 m
8. snow depth up to 0.7 m
9. ultra short wave radio stations broadcasting in 150 - 175 MHz frequency range with up to 40 W output at least 5 m apart from detector units
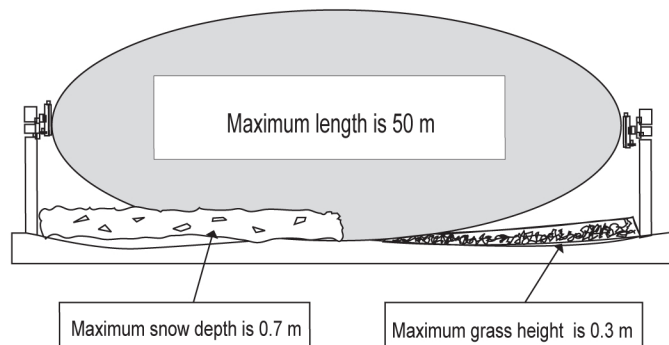
Specifications

Operating frequency, GHz	2.45±0.05
Detection zone range, m	5 - 50
Max detection zone height (detection zone length is adjusted to the max), m ^{2}	at least 2.5
Detection speed range, mps	0.3 - 10.0
Installation height, m	0.8-0.9
DC power supply voltage, V	12 - 27
Current draw, mA	70
Warm-up time after power up, sec	30
Warm-up time after ALARM message generation, sec	10
Alarm message duration, sec	2
Detection probability	0.98
Operating temperature range, °C	– 40…+65
Relative humidity	100%
Detector size, mm	160x115x45
Weight, kg	0.35
Average life time, years	8
Trouble free time, hours	60 000
Warranty, months	36

The set includes

Item	Quantity
Transmitter unit	1
Receiver unit	1
Initial assembly kit	1
User's manual	1

Approximate detection zone shape

Maximum length is 50 m

Maximum snow depth is 0.7 m

Maximum grass height is 0.3 m

Approximate clear zone shape

L=10-300m

$(1+L/50)$ m

PRD

PRM

1m

L/3   L/3   L/3