

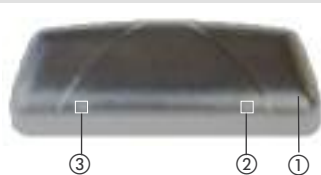
PrimeMotion B

Please keep for further use!

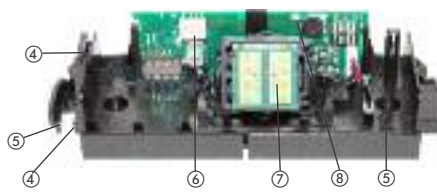
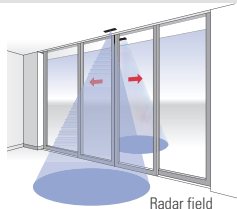
Microwave motion detector for opening automatically controlled doors

Translation of the original instructions

General



PrimeMotion B



- ① Hood
- ② Light window detector indication
- ③ no function
- ④ Cable bushing
- ⑤ Mounting holes
- ⑥ Detector electronic
- ⑦ Microwave module
- ⑧ LED microw.: green

1 Safety instructions

Observe the national and international regulations on door safety.

Only trained, qualified personnel may mount and start up the detector.

The unit may only be opened and repaired by Bircher Reglomat.



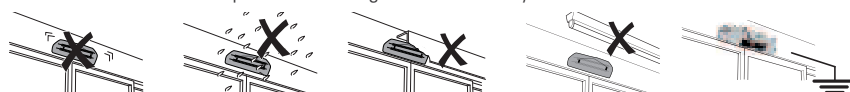
The unit may only be operated from a safety extra-low voltage (SELV) system with safe electrical separation.

Always consider the safety functions of your application as a whole, never just in relation to one individual section of the system.

The installer is responsible for carrying out a risk assessment and installing the detector and the door system correctly.

Avoid touching any electronic components.

The door drive and transom profile must be grounded correctly.



Start-up

Recommended start-up sequence: I. Mounting II. Connection

2 Montage

Mounting

1. Remove cover hood
2. Lay and connect cable
3. Mount detector

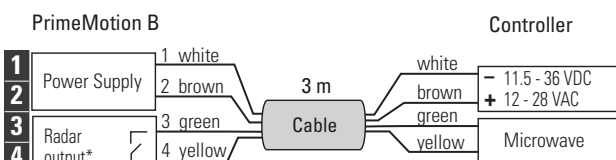
Mounting of the detector

1. Position drill template
2. Drill the holes, remove drill template
3. Lay cable and mount detector



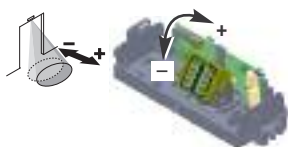
3 Electrical connections

Connecting

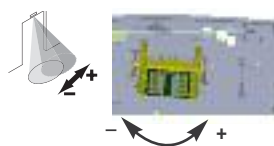


4 Mechanical fine tuning

Manual inclination settings
0° ... +45° in 5° steps



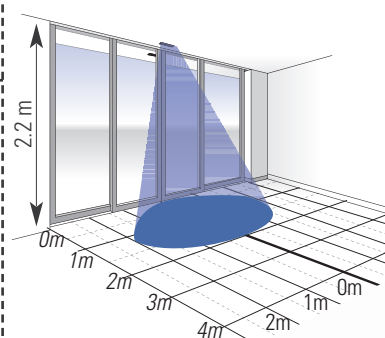
Manual inclination settings
- 20° ... +20° in 5° steps



Wide radar field

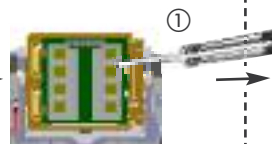


Inclination angle: 35°



min. = 0.5 x 0.25, max. = 4 x 2 m (WxD)

turn 90°

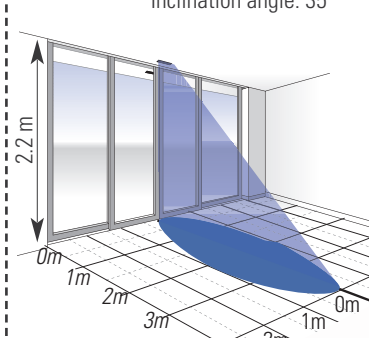


90°

Narrow radar field



Inclination angle: 35°



min. = 0.16 x 0.8, max. = 2 x 4 m (WxD)

5 Configuration by hand DIP-Switch and potentiometer

DIP-Switch

	Radar output (active/passive, NO/NC)
	Interference filter (Door and EM interference)
	CTO and swing filter
	Direction recognition

Potentiometer



Radar functions		DESCRIPTION
Field size		1 = Smallest radar field (LED flashes once), 2 3* = Medium radar field (flashes 3 times), 4 5 = Largest radar field size (flashes 5 times)
Direction recognition		ON = both directions OFF* = forward
Cross Traffic Optimisation CTO		ON = CTO on OFF* = off
Door filter (Interference for radar)		ON = Door and interference filter on (EM interference, e.g. fluorescence tube) OFF* = filter off
Radar output		ON = passive (NC) OFF* = active (NO)

The Slow Motion Detection (SMD) is a factory setting. The SMD recognises slow motions after the detector has been activated.

* factory settings

6 Troubleshooting

green LED	Fault	Remedy
continuously lit	Radar tripping when door is closing	1. Set angle of radar further away from the door.
		2. Adjust radar field size.
	Radar false tripping without apparent external influence	1. Avoid light sources (e.g. fluorescent tubes) in the immediate vicinity of the detector.
		2. No moving objects (plants, advertising posters, etc.) in the vicinity of the detector. 3. Avoid strong vibration at the radar detector 4. Possible influence from a second radar detector in the vicinity (very unlikely)

7 Technical data

Technology	Double field module, 24.125 GHz
Mounting height	1.8 - 4 m
Electrical power supply	≤ 120 mA @ 11.5 – 32 VDC, 12 – 28 VAC
Power consumption	< 4 watts
Making current	≤ 800 mA
Radar output	Solid State Relay max. contact voltage: 48V (AC) / 48V (DC), max. contact-resistance: 30 Ohm max. load current: 80mA, max. switching capacity: 500mW (AC) / 500mW (DC)
Protection type	Suitable for use acc. to IP54
Operating temperature	-20° to 60° C
Dimensions	172 x 60 x 48 mm (LxWxD)
Weight	120 g

8 Declaration of conformity, identification of the year of manufacture by means of the serial number

8.1 Declaration of conformity

Manufacturer:	Bircher Reglomat AG, Wiesengasse 20, CH-8222 Beringen
Following directives have been observed:	RoHS 2011/65/EU, RED 2014/53/EU, EMC 2014/30/EU
Product variant:	PrimeMotion B

8.2 Identification of the year of manufacture



Year, month, day

9 Contact information

Manufacturer:

Bircher Reglomat AG
Wiesengasse 20
CH-8222 Beringen
www.bircher-reglomat.com