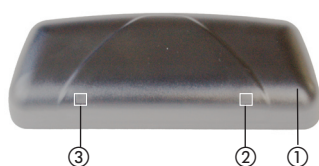


PrimeMotion B

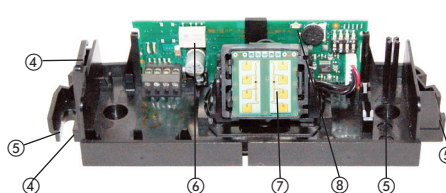
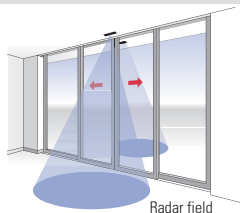
Microwave motion detector for opening automatically controlled doors

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



- Read these operating instructions thoroughly before putting the device into operation and keep them for future reference.
- This product is designed to be mounted above an overhead pedestrian door.
- Not a safety component in accordance with the EU Machinery Directive; must not be used for personal protection or EMERGENCY STOP function.
- Do not use this product other than for its specified application.
- Only trained and qualified personnel may install and initialize the device.
- It is the responsibility of the equipment installer to carry out a risk assessment and to install the system, in compliance with applicable local, national and international regulations, safety standards, codes and laws as well as the Machinery Directive 2006/42/EC, should this apply.
- Always consider the safety functions of your applications as a whole, never just in relation to one individual section of the system.
- The installer is responsible for testing the system to ensure it meets all applicable safety standards.
- The sensor should only be operated from a safety extra low voltage (SELV) system with safe electrical separation according to EN 61558. The wiring must be protected against mechanical damage.
- Avoid touching any electronic and optical components.
- The door drive and the transom must be properly earthed.



Start-up

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

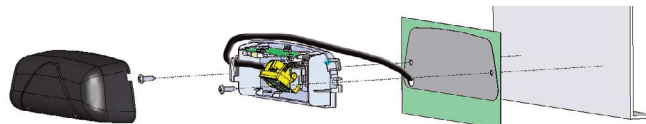
2 Montage

Mounting

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

Mounting of the detector

- Position drill template
- Drill the holes, remove drill template
- Lay cable and mount detector

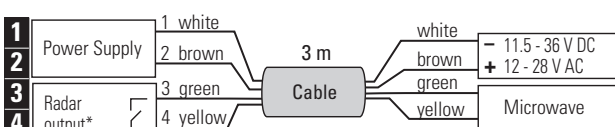


3 Electrical connections

Connecting

PrimeMotion B

Controller



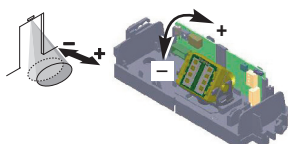
* See also DIP-switch-settings (Chap. 5)



4 Mechanical fine tuning

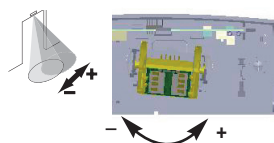
Manual inclination settings

0° ... +45° in 5° steps



Manual inclination settings

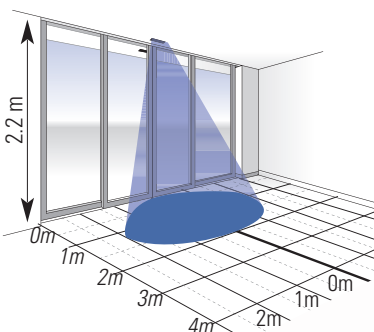
- 20° ... +20° in 5° steps



Wide radar field

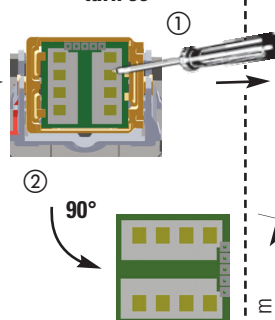


Inclination angle: 35°



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

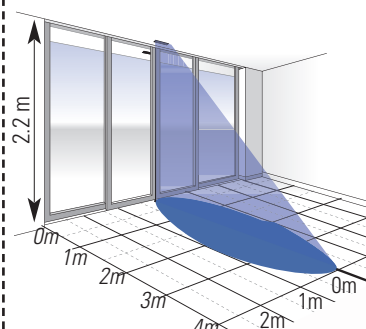
turn 90°



Narrow radar field



Inclination angle: 35°



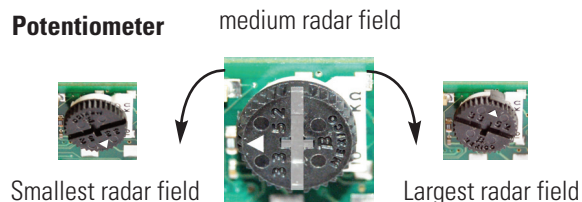
min. = 0.16 x 0.8, max. = 2 x 4 m (WxD)

5 Configuration by hand DIP-Switch and potentiometer

DIP-Switch

	4	Radar output (active/passive, NO/NC)
	3	Interference filter (Door and EM interference)
	2	CTO and swing filter
	1	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	Protection type	IP54 (EN 60529)
Mounting height	1.8 - 4 m	Operating temperature	-20 °C to 60 °C
Operating voltage	11.5 – 32 V DC / 12 – 28 V AC, 50/60 Hz	Humidity	max. 95% relative humidity, non-condensing
Operating current	max. 120 mA	Dimensions	172 x 60 x 48 mm (LxWxD)
Power consumption	max. 4 W	Weight	120 g
Making current	max. 800 mA		
Radar output	Semiconductor relay: Switching voltage: max. 48 V AC / 48 V DC Contact resistance: max. 30 Ω Switching current: max. 80 mA, Switching capacity: max. 500 mW AC/DC		

8 EU Declaration of Conformity

See attachment

9 WEEE

Devices with this symbol must be treated separately during disposal. This must be done in accordance with the laws of the respective countries for environmentally sound disposal, processing and recycling of electrical and electronic equipment.

10 FCC approval



This device meets the requirements of Part 15 of the FCC regulations and the RSS-210 standard of Industry Canada.

Warning: Changes or modifications made to this device may void the FCC authorisation to operate this device.

11 Contact

BBC Bircher Smart Access, BBC Bircher AG, Wiesengasse 20, CH-8222 Beringen, www.bircher.com

Designed in Switzerland / Made in China