

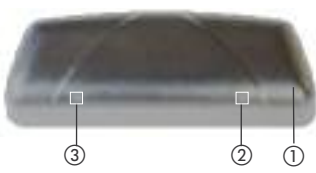
PrimeMotion B

Please keep for further use!

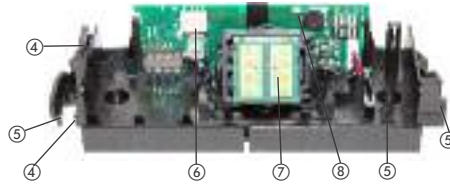
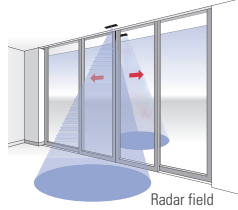
Microwave motion detector for opening automatically controlled doors

Translation of the original instructions

General



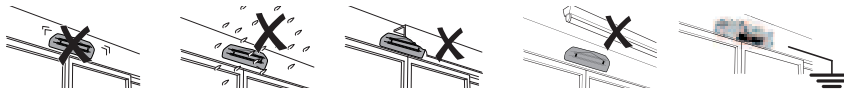
PrimeMotion B



- 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

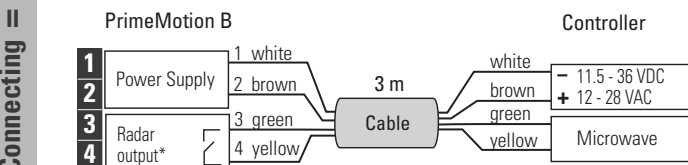
- I 1. Remove cover hood
2. Lay and connect cable
3. Mount detector

Mounting of the detector

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

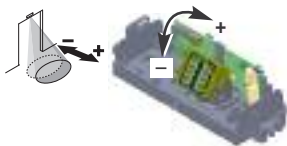


3 Electrical connections

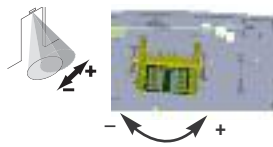


4 Mechanical fine tuning

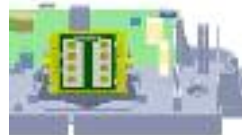
Manual inclination settings
0° ... +45° in 5° steps



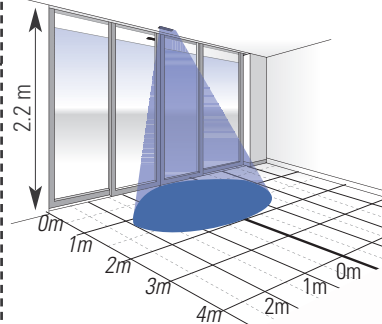
Manual inclination settings
- 20° ... +20° in 5° steps



Wide radar field

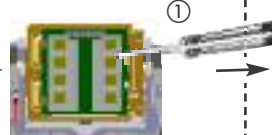


Inclination angle: 35°



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

turn 90°



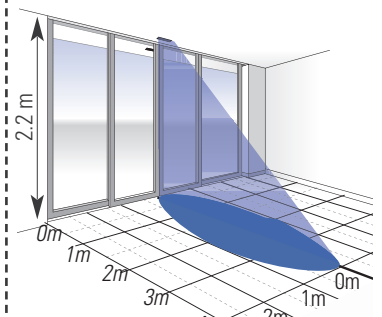
90°



Narrow radar field



Inclination angle: 35°



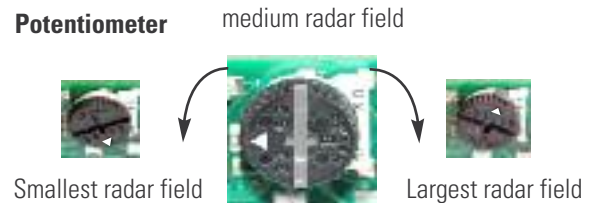
min. = 0.16 x 0.8, max. = 2 x 4 m (WxD)

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 |
|-----------|---|--|
| | Radar tripping when door is closing | 1. Set angle of radar further away from the door. 2. Adjust radar field size. |
| | Radars 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 |
| Radars 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

Danish seller:

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