298506E
05/17

BIRCHER
Reglomat

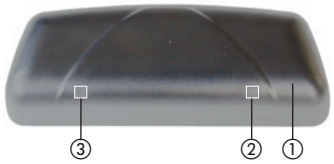
ENGLISH

PrimeMotion C

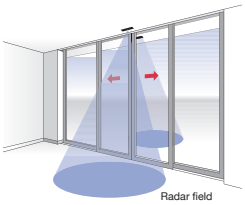
Microwave motion detector for opening automatically controlled doors

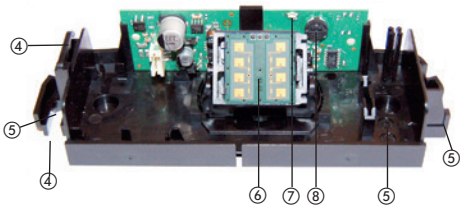
Translation of the original instructions

General



PrimeMotion C



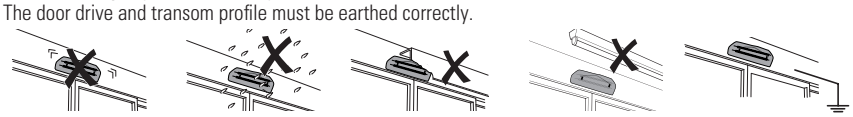


① Hood
② Light window detector indication
③ no function
④ Cable bushing
⑤ Mounting
⑥ Microwave module
⑦ LED microwave: green
⑧ Potentiometer

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 earthed correctly.



Start-up

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

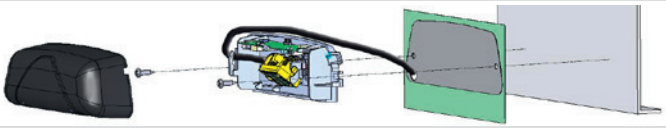
2 Montage

I Mounting

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

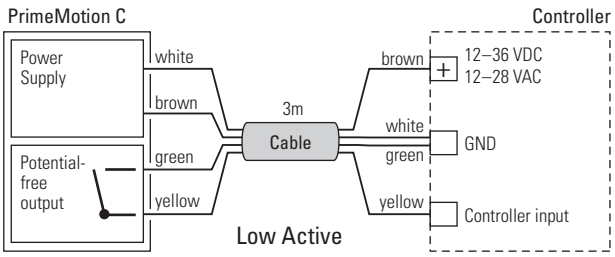
Mounting of the detector

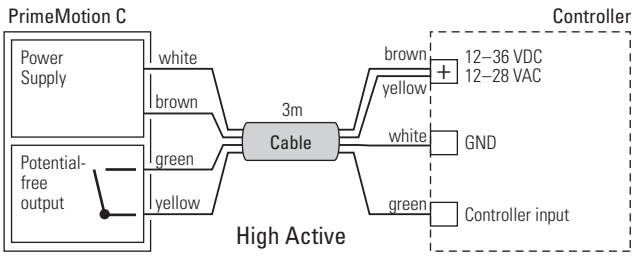
1. Position drill template
2. Drill the holes, remove drill template
3. Lay cable and mount detector



3 Electrical connections

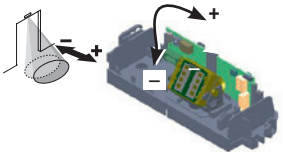
II Connecting



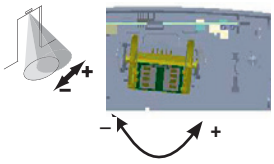


4 Mechanical fine tuning

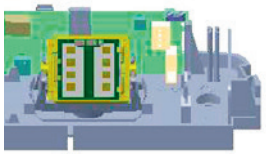
Manual settings of the inclination
0° ... +45° in 5° steps



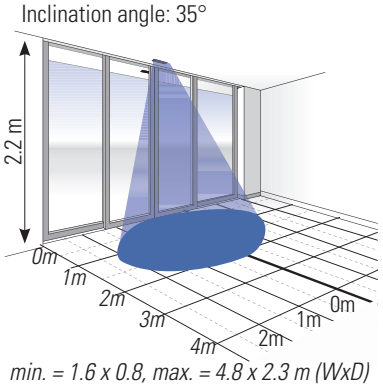
Manual settings of the pivoting
– 20° ... +20° in 5° steps



Wide radar field

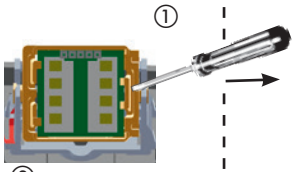


Inclination angle: 35°

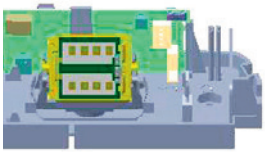


min. = 1.6 x 0.8, max. = 4.8 x 2.3 m (WxD)

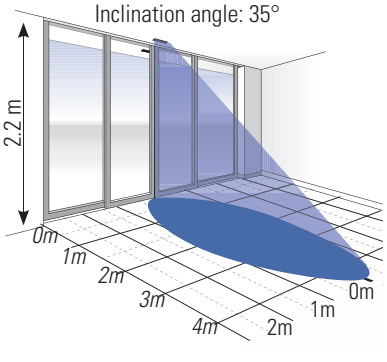
turn 90°



Narrow radar field



Inclination angle: 35°

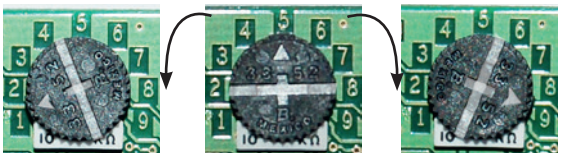


min. = 0.8 x 1.6, max. = 2.3 x 4.8 m (WxD)

5 Configuration by hand of radar field with potentiometer

Potentiometer

Factory settings



Smallest radar field | medium radar field | Largest radar field

Radar function		Description	
Field size			1 = Smallest radar field 2 ... 8 = Medium radar field 9 = Largest radar field size

6 Remedying malfunctions

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	Radar 24.125 GHz
Mounting height	1.8 - 4 m
Operating voltage	12–36 VDC / 12–28 VAC
Operating current	max. 32 mA at 24 VDC
Power consumption	max. 1.3 W
Output radar	max. switching voltage: 48 VAC / VDC max. switching current: 120 mA max. switching capacity: 550 mW
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
Cable length	3 m

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

8.1 EC-Declaration of Conformity

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

8.2 Identification of the year of manufacture

Year 15 | Week 44