ArtMotion 2
Microwave motion detector for opening automatically controlled doors

Original instructions

General

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 the manufacturer.
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.

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

2.1 Mounting

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

2.2 Electrical connections

I. Connecting

ArtMotion 2

Controller

II. Connecting

Power Supply
white brown green yellow

Radar output
3 m white brown green yellow

Radial output
12–36 VDC
12–28 VAC

3 Mechanical fine tuning

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

Wide radar field

Inclination angle: 35°

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

Turn 90°

Narrow radar field

Inclination angle: 35°

min. = 0.8 x 1.6 m
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

<table>
<thead>
<tr>
<th>Radar function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field size</td>
<td></td>
</tr>
<tr>
<td>1 = Smallest radar field</td>
<td></td>
</tr>
<tr>
<td>2 ... 8 = Medium radar field</td>
<td></td>
</tr>
<tr>
<td>9 = Largest radar field size</td>
<td></td>
</tr>
</tbody>
</table>

6 Remedying malfunctions

<table>
<thead>
<tr>
<th>green LED</th>
<th>Fault</th>
<th>Remedy</th>
</tr>
</thead>
</table>
| 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

<table>
<thead>
<tr>
<th>Technology</th>
<th>Radar 24.125 GHz</th>
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<tbody>
<tr>
<td>Mounting height</td>
<td>1.8 – 4 m</td>
</tr>
<tr>
<td>Operating voltage</td>
<td>12–36 VDC / 12–28 VAC</td>
</tr>
<tr>
<td>Operating current</td>
<td>max. 32 mA at 24 VDC</td>
</tr>
<tr>
<td>Power consumption</td>
<td>max. 1.3 W</td>
</tr>
</tbody>
</table>
| 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      | 120 x 64 x 44 mm (L x W x D)  |
| Weight          | 95 g                          |
| Cable length    | 3 m                           |

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