PFM Counting Counts is a global community of professionals. Our members participate in improving and developing Pedestrian Flow Measurement systems giving multinational organisations reliable insights for their business strategies.

The PFM LFD/RD is a new PFM development coming from the challenge to create a reliable overhead counting system. The radar sensor is able to detect all in and out going people under a 45 degree angle. Both directions are separated in the software and persons below 1.3m should be left out the counting data. Due to this 45 degree angle the mounting position should be chosen carefully. PFM is busy to create a positioning tool, to make installation of this sensor more easy.

Radar LFD/RD

MONTAGE INSTRUCTIES

TOOLLIST

- FITTING SCREWDRIVER
- MEASURING TAPE
- SCREWDRIVER CROSS
- AMP TOOL
- CUTTER
- DRILLINGMACHINE Ø 5,7,9,13
- MACHINE TAP M5
- STANLEY KNIFE
**Radar Positioning Tool**

1. Determine Best Counting Line
2. Determine Ceiling Height, Where the Radar Will Be Mounted
3. Set the According Code Switch Coming from the Table on the Right
4. Replace the PFM RPT and Mark the Laser Dot on the Ceiling. Set Radar PCB Switch Accordingly and Mount All.

The PFM Radar Tool is Designed to Make the Installations More Easy. Also the Use of the Aluminum Pipe to Lower the Radar (Narrow the Counting Width) is More Friendly. Note: Make Sure Doors Are Not Being Counted!!

**Height & Reach**

<table>
<thead>
<tr>
<th>Height</th>
<th>BPT Tool / Code Switch</th>
<th>Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>0</td>
<td>1.3</td>
</tr>
<tr>
<td>2.2</td>
<td>1</td>
<td>1.4</td>
</tr>
<tr>
<td>2.4</td>
<td>2</td>
<td>1.6</td>
</tr>
<tr>
<td>2.6</td>
<td>3</td>
<td>1.8</td>
</tr>
<tr>
<td>2.8</td>
<td>4</td>
<td>2.0</td>
</tr>
<tr>
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<td>5</td>
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<td>9</td>
<td>3.5</td>
</tr>
<tr>
<td>4.0</td>
<td>A</td>
<td>3.9</td>
</tr>
<tr>
<td>4.2</td>
<td>B</td>
<td>4.3</td>
</tr>
</tbody>
</table>

* Code setting on tool corresponds with the code switch setting.

**System 6(A)**

Flash order of LED’s:
- From A > B = Direction of incoming visitors
- From B > A = Direction of outgoing visitors

**Circuit Board**

- The PFM LFD/RD gives 10msec pulses which require special settings on the applied hardware:
  - **MiniLogger System 6/6A**: Set OMNI Directional Sensor Set
  - **Highway Module**: Set to OMNI Directional
  - **JB1-RF Module**: Door Ignore Time 10 MS

**Radial Link**

**SOFTWARE & HARDWARE SETTINGS**

- The PFM LFD/RD gives 10msec pulses which require special settings on the applied hardware:
  - **MiniLogger System 6/6A**: Set OMNI Directional Sensor Set
  - **Highway Module**: Set to OMNI Directional
  - **JB1-RF Module**: Door Ignore Time 10 MS

**Error After Installations**

- **Before Calling Our Support Department**
  - You Need to Make Sure That the General Settings Are Correct
- **General Problems**
  - Check Power
  - **No Red LED During Incoming People**: (Towards Radar) Check Code Switch Setting
  - **No Red LED During Outgoing People**: (From Radar) Check Code Switch Setting

**Radio Link**

- **MiniLogger System 6/6A**: No Counts in Data File
  - Set Door Ignore Time (10MS)
  - Sensor Setting to OMNI Directional
  - See Manual
- **Highway Module**: No Counts in Data File
  - Set Door Ignore Time (10MS)
  - See Manual
- **JB1-RF Module**: No Counts in Data File
  - Control Door Ignore Time (>20MS)
  - See Manual

**Too High & Reach**

The LED-RD Housing Contains 2 LED’s. The Red LED Is for Signal Indication, Despite Their Direction. The Green One is to See If There Is Power on the Device. Always Use the LED While Testing After Installation.

**LEDs**

- **Before Calling Our Support Department**
  - Make Sure That the General Settings Are Correct
- **General Problems**
  - Check Power
  - No Red LED During Incoming People
  - No Red LED During Outgoing People

**Highway Module**

- No Counts in Data File
  - Set Door Ignore Time (10MS)

**JB1-RF Module**

- No Counts in Data File
  - Control Door Ignore Time (>20MS)

**MiniLogger System 6/6A**

- No Counts in Data File
  - Set Door Ignore Time (10MS)

**Error After Installations**

- **Before Calling Our Support Department**
  - Make Sure That the General Settings Are Correct
- **General Problems**
  - Check Power
  - No Red LED During Incoming People
  - No Red LED During Outgoing People

**Highway Module**

- No Counts in Data File
  - Set Door Ignore Time (10MS)

**JB1-RF Module**

- No Counts in Data File
  - Control Door Ignore Time (>20MS)

**MiniLogger System 6/6A**

- No Counts in Data File
  - Set Door Ignore Time (10MS)