## Bed Occupancy Sensor

### Data Sheet

<table>
<thead>
<tr>
<th>Model</th>
<th>XOB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating voltage</td>
<td>3V DC with batteries / 5V DC with external power supply</td>
</tr>
</tbody>
</table>
| Power consumption | Test Mode = 2 - 5mA  
Power-Saving Mode = 0.2 - 0.4mA |
| Output connectors | Power supply, AUX and bed sensor |
| Signalling and connection output | |
| Output connector | ¼ inch Stereo Jack Socket to be used with lead adaptor to input of a transceiver module |
| Signalling connection can be Normally Closed/Open/Changeover. This Signalling is directional (settings can be set with DIP switches on sensors PCB behind access panel) | Using Single IC ADG821 are monolithic CMOS single pole, single-throw (SPST) Signalling switch |
| IN BED/ OUT OF BED Delay Timers are set DIP switches on sensors PCB via access panel) | Timer delays can be set from Seconds to Hours, this is in order to reduce the number of alerts and save power for transceiver modules. |
| Output signalling CMOS Analog Switch Dual SPST Switch | Max. 100mA A, <60V DC, <25V AC <1 Ω CMOS 1.8 V to 5.5 V, Dual SPST Switch Carrying Capability: 200mA |
| Switches and controls | SW1 (on/off/reset switch), 8 pcs DIP switches for settings (volume, delay), one 10-position rotary switch for adjusting sensitivity |
| Signal lights | 3 LEDs: green, blue and red |
| Delays | Movement notification delay alternatives: 10s, 13s, 16s or 20s |
| External Switch | Front panel switch for OFF/Power saving/Test Modes  
Test mode uses LED status indicators and is x20 less efficient. |
| TEST MODE LED Signalling | Red LED (BED Un-Occupied)  
Blue LED (BED Status Un-Occupied but under Timer delay before Signalling)  
All LEDs OFF (BED Occupied)  
GREEN LED (BED Status Un-Occupied but Signal detected) |
<p>| Mounting | Wall mounting, bedside or table |
| Measurements | 96 x 127 x 34mm |
| Weight (g) | 120g |
| Colour | Black with Blue protective Boot |
| IP rating | IP20 |
| Casing | Plastic &amp; protective silicon |</p>
<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>BMAT</td>
</tr>
<tr>
<td>Placing</td>
<td>Under mattress</td>
</tr>
<tr>
<td>Portability</td>
<td>Yes (can be rolled up to store)</td>
</tr>
<tr>
<td>Measurements mm (length x width)</td>
<td>1980 x 630</td>
</tr>
<tr>
<td>Thickness mm</td>
<td>33</td>
</tr>
<tr>
<td>Weight</td>
<td>1500g</td>
</tr>
<tr>
<td>Colour</td>
<td>Blue / white</td>
</tr>
<tr>
<td>Surface material</td>
<td>Flame retardant polyester</td>
</tr>
<tr>
<td>Filling</td>
<td>Open core resilient foam</td>
</tr>
<tr>
<td>Tubing</td>
<td>Black PVC, 3.00mm diameter, 3m supplied (can be cut to required length)</td>
</tr>
<tr>
<td>Tubing material</td>
<td>PVC</td>
</tr>
<tr>
<td>IP rating</td>
<td>IP65</td>
</tr>
<tr>
<td>Ambient conditions</td>
<td></td>
</tr>
<tr>
<td>Operating temperature</td>
<td>10-40 degrees Celsius</td>
</tr>
<tr>
<td>Storage and transport temperature</td>
<td>-30 – 50 degrees Celsius</td>
</tr>
<tr>
<td>Relative humidity</td>
<td>20 – 75%</td>
</tr>
<tr>
<td>Air pressure</td>
<td>86kPa to 106 kPa (860mbar to 1060 mbar)</td>
</tr>
</tbody>
</table>