

Bed Occupancy Sensor

Data Sheet

Model	XOB
Operating voltage	3V DC with batteries / 5V DC with external power supply
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)
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 & protective silicon

Model	BMAT
Placing	Under mattress
Portability	Yes (can be rolled up to store)
Measurements mm (length x width)	1980 x 630
Thickness mm	33
Weight	1500g
Colour	Blue / white
Surface material	Flame retardant polyester
Filling	Open core resilient foam
Tubing	Black PVC, 3.00mm diameter, 3m supplied (can be cut to required length)
Tubing material	PVC
IP rating	IP65

Ambient conditions	
Operating temperature	10-40 degrees Celsius
Storage and transport temperature	-30 – 50 degrees Celsius
Relative humidity	20 – 75%
Air pressure	86kPa to 106 kPa (860mbar to 1060 mbar)