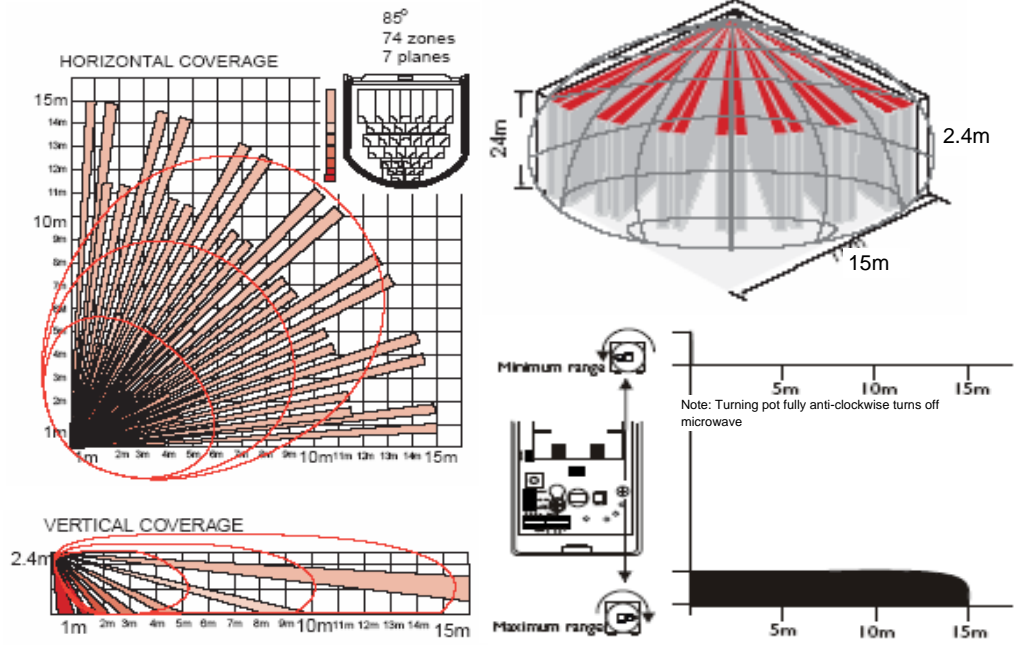


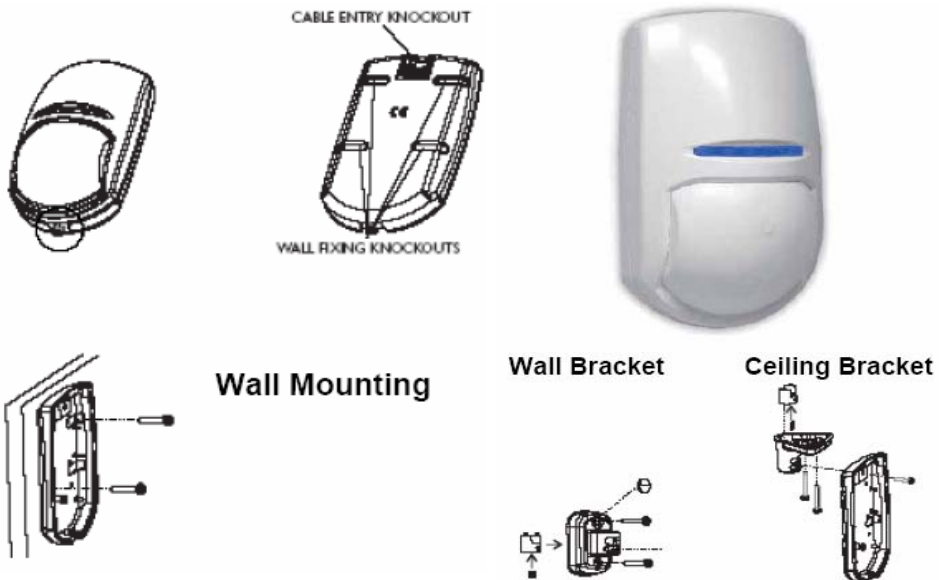
Blue Wave Movement Sensor –PIR & Microwave **Product Data**

Catalogue Number:	BW/MW
Voltage Supply:	9 to 16V DC (12V nominal)
Current:	24mA @ 12V minimum
Casing:	3mm White ABS Electrostatic Shielded, 0.4mm HDPE (Lens)
Operating Temperature:	-30°C to +70°C
Storage Temperature:	-40°C to +80°C
Humidity:	Up to 95% RH, non condensing
Detection Method:	Digital Quad Signal Processing 74 zones (PIR) and cross band DRO base microwave Doppler Sensor
Detection Speed:	0.3 – 3.0 m/s
Warm-up Time:	4 Seconds (After power-up)
Mounting Height:	1.8m to 2.4m
Dimensions (mm):	69 (w) x 50 (d) x 117 (h) mm
Fixing method:	Wall mounting - 4 x 4mm fixing holes Ceiling mounting via supplied bracket
Output:	Voltage free relay with selectable Normally Open or Normally Closed contacts rated at 60V DC, 50mA (42.4VAC Peak)
Indicators:	Microwave = Orange, PIR = Green and Alarm = Blue
Timer Control Adjustment:	Located at Chalmor controller
Light Level Adjustment:	Located at Chalmor controller, if specified
Maximum Coverage:	15m
Conformance:	Emissions EN55022 Class B Immunity EN50130-4
Accessories:	Wall & Ceiling mounting brackets (included) Wire guards available – flat or corner fitting
Weight & Dimensions:	125g without bracket. 113mm high, 50mm deep, 69mm wide

Coverage Patterns



Installation Diagrams



Installation Procedure

Remove cover from the sensor using the fixing screw below and the hook located on the top.

Carefully remove the PCB from the housing by loosening the screw positioned to the bottom left the unit, adjacent to the sensor element.

Use all 4 fixing points or the ceiling/wall bracket. Fit the sensor to a secure surface. Refer to the diagrams for the most suitable fixing position.

Under no circumstances should the sensor be installed causing damage to the housing. The sensor should not be installed where the local environmental conditions (sunlight, radiators, heating pipe work, warm/cool air ducting, etc) will effect its operation.

The sensor should only be ceiling fixed using the supplied bracket.

An ELV 4 core cable is to be installed between the sensor and the specified controller. The cable must have an insulation rating equal to the maximum insulation rating equal to the maximum voltage present within the installation (Normally 240V at the controller).

Do not run cable parallel to mains wiring.

Conductors are to be prepared with a 3mm bare conductor and connected directly on to the correct terminations.

IRS1/C	Sensor	BW2/C	Sensor
+	+	+	+
-	-	-	-
NC	Alarm	-	Alarm
NC	Alarm	Alarm	Alarm

Note – Tamper and LED terminals are not used.

Multiple Sensor Installation

Where more than one sensor is required to cover an area, installation should be as above with the exception of the wiring. To use two or more sensors connect + & - in parallel and connect NC contacts (ALARM) in series. (When set to Normally Closed mode). If used in Normally Open Mode, connect the Alarm outputs in parallel.

Programming

See diagram overleaf.

Programming

