



# Product Summary Sheet

July 7, 2003 Rev 001

## BV-300D(P) – Hardwire Digital Bravo3D Motion Detector

The Bravo3D(P) motion detector is general-purpose, passive infrared (PIR) detectors. The 'P' designator in the part number indicates the unit is designed to provide immunity to pets (total weight up to 60 lbs or 27.3 kg). The mounting height should be between 6.5 ft (1.95 m) and 10 ft (3 m) high.

The detector uses digital technology and is controlled by a microprocessor to elevate the detection capabilities and provide consistent detection throughout the entire coverage pattern while preventing false alarms. The unit uses digital MLSP (patented Multi-Level Signal Processing) to analyze the amplitude and duration of each pulse instead of simply counting them as in other, simpler pulse-count detectors. The unit includes digital temperature compensation. It changes the algorithm used to minimize shrinkage in the coverage pattern at critical temperatures (86-88° F).

### Product Information:

BV-300D Form 'A' alarm contact  
BV-301D Form 'A' alarm contact and tamper switch  
BV-302D Form 'C' alarm contact and tamper switch

Note: 'P' pet-immune version (up to 60 lbs or 27.3 kg)

### Specifications:

Operating voltage: 9.5 – 14.5VDC  
Standby current: 15mA  
Alarm current: 18mA  
Operating temperature: 0°C - 50°C (32°F - 122°F)  
Walk detection speed: 0.5' – 10'/s (0.15m – 3.0m/s)  
Coverage angle (wall/wall lens): 90° minimum

### Jumpers:

J1 ON LED enabled  
OFF LED disabled  
J2 ON High sensitivity (fast)  
OFF Low sensitivity (slow)

### Coverage Patterns and Available Lenses:

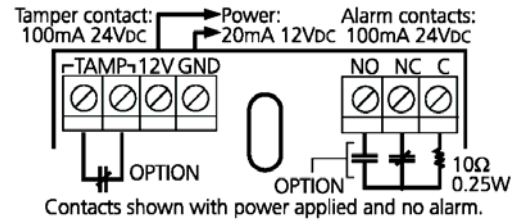
Units come standard with the BV-L1-UV wall-to-wall lens.

#### Digital Bravo 3

BV-L1-UV – Wall-to-wall lens: 50' L x 60' W (15.2m x 18.3m)  
BV-L2-UV – Corridor lens\*: 80' L x 10.5' W (24.4m x 3.2m)  
BV-L3-UV – Curtain lens: 50' L x 4.4' W (15.2m x 1.3m)

\*Note: When using the corridor lens, jumper J2 should be ON (high sensitivity).

### Wiring:



### Vertical Beam Adjustment:

The board should be adjusted depending on the mounting height of the detector. Loosen the screw in the center of the PCB and adjust using the markings on the right-hand side.

Height ft/m	Setting for Full Range (by lens type)			
	BV-L1-UV	BV-L2-UV	BV-L3-UV	BV-L4-UV
10'/3m	0.00	-0.25	0.00	—
8'/2.4m	+0.50	+0.25	0.00	—
7'/2.1m	+0.75	+0.25	0.00	—
6'/1.8m	+1.00	+0.50	0.00	—
5'/1.5m	—	—	—	0.00
4'/1.2m	—	—	—	0.00

Moving board DOWN will increase far range and bring near beams closer to mounting wall.

Moving board UP will reduce far range and move near beams farther from mounting wall.

### Troubleshooting:

1. If pets are present, use the pet-alley lens and put the unit into low sensitivity.
2. The unit should be put into low sensitivity for harsh installations (for example, areas with drafts).
3. Ensure detector is not located near any reflective surfaces, airflow ducts, air moisture or reflected sunlight.