



## BV-600 – Bravo Series Dual-PIR Motion Detector

The Bravo Series BV-600 is a specialized dual-PIR motion sensor. It provides pet immunity by using two vertically and horizontally separated dual-element PIR detectors and a two lens systems to produce an overall pattern that is similar to a checkerboard. Both detectors must be tripped at the **same time** in order to cause an alarm. The unit will provide immunity for a single pet whose weight does not exceed 85lbs (38kg) and whose size does not exceed 2½ ft (0.75m) tall by 4½ ft (1.4m) long or two pets who do not have a combined weight of more than 85lbs (37.2 kg).

The unit uses 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 to minimize shrinkage in the coverage pattern and critical temperatures (86-88° F).

### Version Identification:

v1.00      Version sticker on PCB and jumpers J2, J3  
v1.02      Version sticker on PCB and jumpers J1, J2

### Product Information:

BV-600:      Form 'A' alarm contact  
BV-601:      Form 'A' alarm contact & tamper switch  
BV-602:      Form 'C' alarm contact & tamper switch

### Jumpers:

v1.02	J1	ON	LED disabled
		OFF	LED enabled
	J2	ON	High Sensitivity (fast)
		OFF	Low Sensitivity (slow)
v1.00	J2	ON	LED disabled
		OFF	LED enabled
	J3	ON	High Sensitivity (fast)
		OFF	Low Sensitivity (slow)

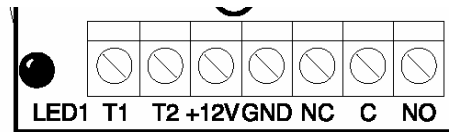
Note:      The unit should be configured for low sensitivity (slow) operation when pet immunity is required.

### Vertical Adjustment:

Depending on the height the detector is mounted at, the unit may have to be adjusted to get the desired coverage pattern. Refer to the chart below:

7.0'/2.1 m	+ 0.50
7.5'/2.3 m	0.00
8.5'/2.6 m	- 0.50
9.0'/2.7 m	- 0.75
10.5'/3.2 m	- 1.25

### Wiring:



**+12V**      Connect to AUX of control panel or power supply  
**GND**        Connect to GND or COM of control panel or power supply  
**C, NC**      Connect across Zone and COM terminals

### Specifications:

Operating voltage:                    9.5 – 14.5VDC  
Standby current:                      16mA  
Alarm current:                         20mA  
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

### Troubleshooting:

1. If the detector does not function:
  - a. Make sure the detector has sufficient voltage
  - b. Make sure the detector is within the specified mounting range (7'-10.5' high) and make sure the board is at the correct vertical adjustment
2. If dealing with a false alarm issue:
  - a. Make sure the unit is not facing at stairs, any reflective surfaces like mirrors or windows, or near direct-air flow like air ducts
  - b. If pets are present, make sure the detector is configured for low sensitivity (slow) operation
  - c. Make sure the pet is within the required specifications (weight, height and length)
  - d. If multiple pets are present, make sure the combined weight does not exceed 85lbs (37.2 kg)