

DSC BV-600 Brave Dual PIR Motion Detector Instruction Manual

Dual PIR Motion Detector
Installation Instructions

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BV-600 Brave Dual PIR Motion Detector



Locating The Detector

Select a detector location that will provide the coverage required. Consider the following to avoid false alarms:

- Do not aim the detector at reflective surfaces such as mirrors or windows as this may distort the coverage pattern or reflect sunlight directly onto the detector.
- Avoid locations that are subject to direct high air flow such as near an air duct outlet.
- Do not locate the detector near sources of steam or oil.
- Do not aim the detector such that it will receive direct or reflected (mirror) sunlight.
- Do not limit the coverage by large obstructions in the detection area such as plants or cabinets.
- Do not aim the detector at a stairway which a pet has access to.
- Do not place furniture or objects higher than 3 ft/0.9 m, which a pet can climb onto (e.g. a cat on a couch), closer than 7 ft/2.1 m to the detector.

Mounting

To open the case, use a small flat blade screwdriver and gently push in the tab at the bottom of the case and pull the cover straight out at the bottom. Loosen the printed circuit board screw, and push the board up as far as it will go. Using a small screwdriver, remove the appropriate knockouts for the mounting screws. Remove the desired wiring entrance knockouts located at the top or bottom of the backplate. Mount the backplate. Locate screws diagonally opposite to each other to prevent case warpage.

Vertical Adjustment
NOTE: Range and dead zones may vary due to settings.
Using the Mounting Height chart, set the vertical adjustment to get the desired coverage. Ensure that the PCB retaining screw is tightened just enough to prevent board movement.
Moving the circuit board DOWN will increase the far range and move the near beams farther out from the mounting wall.
Moving the circuit board UP will reduce the far range and bring the near beams closer to the mounting wall. Moving the circuit board DOWN too much will cause the far beams to “look” above the target; as a result, the range may appear

shorter.
Jumper J1 will enable/disable the alarm LED. If J1 is OFF, the LED will not operate on alarm. If J1 is ON, the LED will operate on alarm. Jumper J2 selects between harsh and normal environments. For a typical environment or one containing a small pet lower than 1.2 ft/0.36 m, set the unit as normal (J2 ON). For a large pet, the jumper J2 should be removed.

Walk Testing

Once the detector has been set up, walk test the entire area where coverage is desired. Should the coverage be incomplete, readjust or relocate the detector to obtain full coverage. Once coverage is as required, the alarm LED may be disabled by setting J1 to OFF.

IMPORTANT NOTE: Upon installation, the unit should be thoroughly tested to verify proper operation. The end user should be instructed on how to perform walk tests, and should walk test the detector weekly.

Physical

• Dimensions: 4.9″ H × 2.76″ W × 1.75″ D (124.5 mm × 70 mm × 44.5 mm)
• Colour: White with white lens

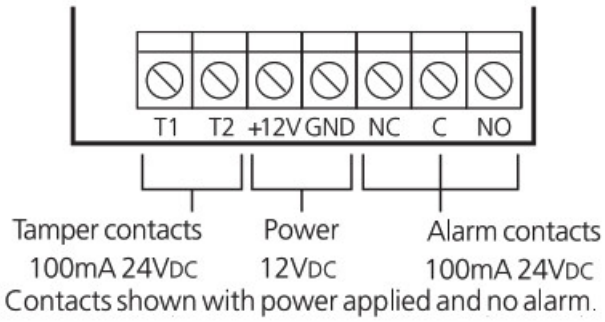
Specifications

Operating voltage	9.5VDC-14.5VDC
Supply voltage ripple	3.0V pp @/em 12VDC
Standby current	16.5mA / 16,5 mA
Current in alarm (LED ON)	17.5mA
Contact rating (alarm and tamper)	100mA @/em 24VDC
Alarm contact resistor in common	28Ω 0.25W / 28Ω ¼W
Operating temperature	0°C-49°C (32°F-120°F)
Storage temperature	-40°C-60°C (40°F-140°F)
Operating humidity	5-93% RH non cond.
Storage humidity	up to/ate 99% RH non cond.
Radiated RF immunity	20 V/m with/con/+ 80% AM over range
Conducted RF immunity	10 V with/con/+ 80% AM over range
Static immunity	15kV
Transient immunity	2.4kV @/em 1.2 joules
Walk detection speed	0.5’/s – 10’/s (0.15-3 m/s)
Coverage angle (wall/wall lens)	100° maximum
Vertical adjustment	+2° to -5° / +2º a -5º
Mounting heights	7′-10.5’/2.1m-3.2m (nominal 7.5’/2.3m)
Immune to pets under:	2.5‘/0.75 m (up to/hasta/ate 85 lbs/38 kg)

	Models
BV-600	Form ‘A’ alarm contact
BV-601	Form ‘A’ alarm contact & tamper switch
BV-602	Form ‘C’ alarm contact & tamper switch

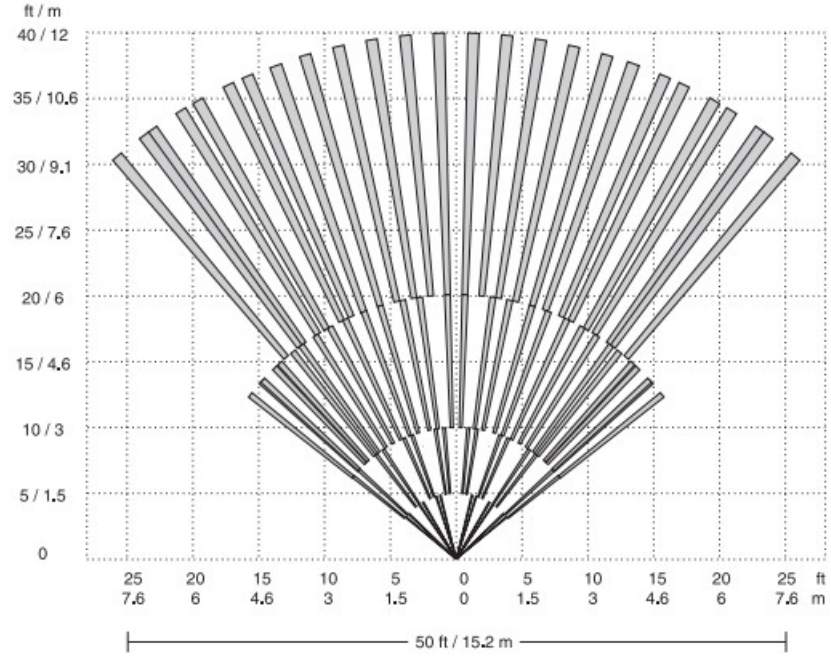
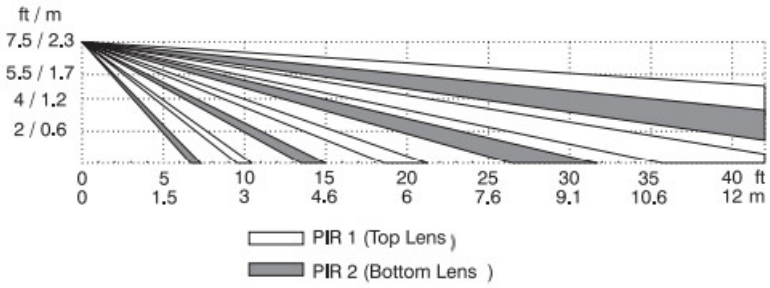
Vertical Height Guide	
7.0’ / 2.1m	0.25
7.5’ / 2.3m	0
8.5’ / 2.6m	-0.5
9.0’ / 2.7m	-1
10.5’ / 3.2m	-1.5

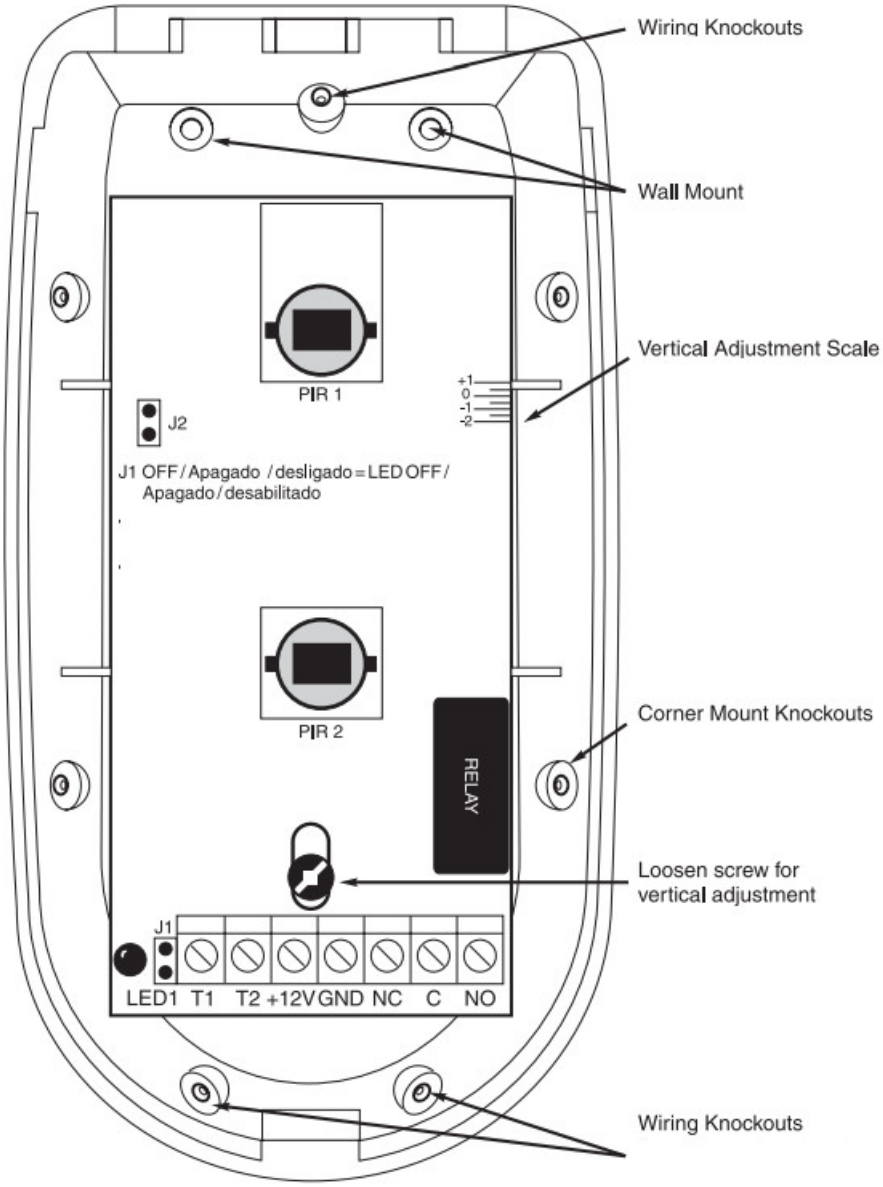
Wiring
NOTE: This unit is UL-Listed and should be connected to a listed control unit or power supply providing at least 4 hours of standby power .



This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Beam Patterns for Bravo6 Series Lens

Top View Vista superior	
Side View Vista lateral	



Limited Warranty

Digital Security Controls Ltd. warrants that for a period of twelve months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfilment of any breach of such warranty, Digital Security Controls Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Digital Security Controls Ltd. Digital Security Controls Ltd. neither assumes, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product. In no event shall Digital Security Controls Ltd. be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

Motion detectors can only detect motion within the designated areas as shown in their respective installation instructions. They cannot discriminate between intruders and intended occupants. Motion detectors do not provide volumetric area protection. They have multiple beams of detection and motion can only be detected in unobstructed areas covered by these beams. They cannot detect motion which occurs behind walls, ceilings, floor, closed doors, glass partitions, glass doors or windows. Any type of tampering whether intentional or unintentional such as masking, painting, or spraying of any material on the lenses, mirrors, windows or any other part of the detection system will impair its proper operation.

Passive infrared motion detectors operate by sensing changes in temperature. However their effectiveness can be reduced when the ambient temperature rises near or above body temperature or if there are intentional or unintentional sources of heat in or near the detection area. Some of these heat sources could be heaters, radiators, stoves, barbeques, fireplaces, sunlight, steam vents, lighting and so on.

WARNING: Digital Security Controls Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

IMPORTANT INFORMATION: Changes or modifications not expressly approved by Digital Security Controls Ltd. could void the user's authority to operate this equipment.

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Printed in Canada
29034623 R001

Documents / Resources

	DSC BV-600 Brave Dual PIR Motion Detector [pdf] Instruction Manual BV-601, BV-600 Brave Dual PIR Motion Detector, Brave Dual PIR Motion Detector, Dual PIR Motion Detector, PIR Motion Detector, Motion Detector, Detector

References

- DSC
- Search - Manual-Hub.com

Manuals+,