INSTALLATION INSTRUCTIONS

BINGO

DIGITAL PIR DETECTOR With PET IMMUNITY up to 25 kg



PRODUCT FEATURES

The **BINGO** Detector uses a special designed optical Lens with unique Quad (Four element) PIR Sensor and new ASIC based electronics optimized to eliminate false alarms, caused by small animals and Pets.

The BINGO provides unprecedented levels of immunity against visible light.

The Detector offers an exceptional level of detection capability and stability for every security installation.

The BINGO is supplied with Wide Angle lens with PET immune function.

- Four Element Imaging Technology "Quad".
- · ASIC based electronics
- Immunity to animals up to 25kg (55 lbs).
- 18m Detection Range with Wide Angle Lens.
- Temperature compensation.
- Compact Design for Residential Installation.
- Variable pulse width adjustment.
- Sensitivity adjustment.
- Environmental immunity.
- Height installation calibration free (1.8~2.4m).
- LED ON/OFF Jumper
- Selectable Pulse Count (1, 2 or 3)
- Selectable PET Size (15Kg or 25 Kg)
- EOL spare Terminals
- Tamper Switch
- Sensitivity Calibration

DETECTION PATTERNS

Fig. 1 - Wide Angle Lens

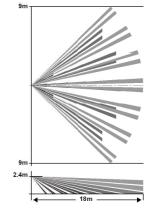
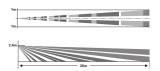


Fig 2 - Long Range Curtain Lens - OPTION



SELECT MOUNTING LOCATION

Choose a location most likely to intercept an intruder. See detection pattern Fig. 1 and Fig. 2.

The BINGO performs best when provided with a constant and stable environment and background. The quad-element high quality sensor detects motion crossing the beam; it is slightly less sensitive detecting motion toward the detector.

Long Range Curtain Lens - OPTION

When pet immunity is required, optional Long Range Curtain Lens cannot be used. Pet immunity can only be achieved with Wide Angle Lens.

AVOID THE FOLLOWING LOCATIONS:

- ☐ Facing direct sunlight.
- ☐ Facing areas that may change temperature rapidly.
- $\ \square$ Areas where there are air ducts or substantial airflows
- ☐ Avoid screen, curtain that may block detection area.
- □ Do not install outdoors.

PET IMMUNITY

Pet immunity is most effective on the following sized animals:

Rodents = 5 to 12cm high

Cats = 5 to 35 cm high at normal room temperature. Small to medium sized dogs = 10 to 45cm high at normal room temperature.

When a dog jumps up on desks, the BINGO may detect it. Adjust detection area to avoid such places.

Mount between 2.1 and 2.4m. (For better immunity.

especially for medium sized dogs, mount as close to 2.4m. as possible).

Do not angle detector towards the ground or use the angle bracket.

Mount flat on the wall or in the corner. For best pet immunity, limit the detectors field of view to

10~12m maximum in any direction. Pulse Count 2 or 3 is not required for Pet Immunity

applications. Use 2 or 3 pulse only in harsh environment.

For rodents If any shelves within 4.5m of the detector have a height that comes within 0.5~1m below the mounting height of the detector and rodents can access these areas, pet immunity will be reduced. Please select mounting location of detectors carefully to avoid this situation.

If there are cats, any shelves in the detection area will reduce pet immunity.

Wiring

MOUNTING THE DETECTOR

The detector can either be wall or corner mounted. If ceiling or special wall mounting is required, use the optional bracket base. Refer to bracket description.

- 1. Unscrew the holding screw and gently raise the front cover (Fig. 3)
- 2. Carefully unscrew the PCB holding screw located on the PC board (Fig. 7).
- 3. Break out the desired knockout holes for proper installation (Fig. 4).
- 4. The circular and rectangular indentations at the bottom base are the knockout holes for wire entry. You may also use mounting holes that are not in use for running the wiring into the detector (Fig. 4).
- 5. For bracket mounting option lead wire through the
- 6. Mount the detector base to the wall, corner or ceiling. (For option with bracket see Fig. 8).
- 7. Reinstall the PC board by fully tightening the holding screw. Connect wire to terminal block.
- 8. Replace the cover by inserting it back in the appropriate closing pins and screw in the holding

OPENING THE DETECTOR

MOUNTING DESCRIPTION

For cats.

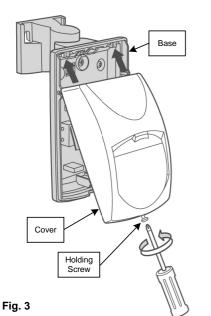
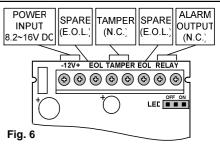


Fig. 4 Bracket knockout Mounting Corner mount Cover LED Holding Screw Lens Fig. 5

TERMINAL BLOCK CONNECTIONS



Terminal 1 - Marked - (GND)

Connect to ground of the control panel.

Terminal 2 - Marked + (+12V)

Connect to the positive Voltage output of 8.2 ~ 16Vdc source (usually from the alarm control unit).

Terminals 3&6 - Marked EOL

End of line options

Terminals 4 & 5 - Marked TAMPER

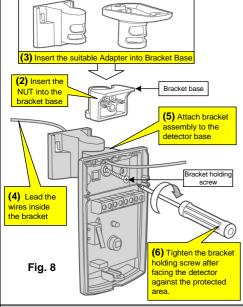
Connect these terminals to a 24hour normally closed protective zone in the control unit.

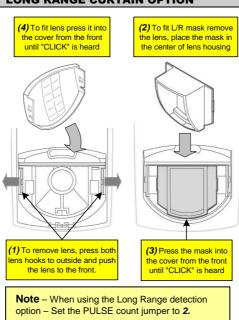
Once the front cover of the detector is opened, an immediate alarm signal will be sent to the control unit.

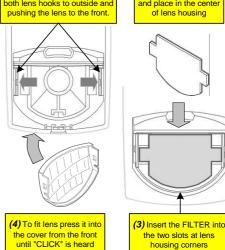
Terminals 7 & 8 - Marked RELAY

These are the output relay contacts of the detector. Connect to the control at zone input.

SETTING UP THE DETECTOR SENSITIVITY ADJUSTMENT **TESTING THE DETECTOR** PET IMMUNITYJUMPER **TEST PROCEDURES** The sensitivity potentiometer should be adjusted Apply 12 Vdc power to the detector, wait 2 minutes to according to the security risk level at the installation site. Immunity to an animal finish the detector warm up time. Conduct testing with PET | . For high-risk environment adjust sensitivity close to MIN up to 15 ka the protected area cleared of all people. (15%). In low risk situations, adjust sensitivity closer to 25Kg 15Kg Walk test MAX (100%), factory set to 57%. Immunity to an animal 1 Remove front cover up to **25 kg** Make sure that **PULSE** jumper is in position 1. PET = = LED ON/OFF 3. Make sure that LED jumper is ON. Jumper 25Ka 15Ka Replace the front cover. **PULSE COUNT JUMPER** Start walking slowly across the detection zone. -12V+ ED TAMPER EOL RELAY Observe that the detector's LED lights whenever Installation for normal Stable motion is detected. environment with wide-angle ■ ■ ■ PULSE Holding Screw Allow 5 sec. between each test. lens - set to 1 PULSE 8. After the walk test is completed, the LED and Sensitivity Potentiomete 3 2 1 (D) PULSE jumpers may be changed. LED Alarm ■■■ PULSE When operating in harsh NOTE: Walk tests should be conducted, at least once a Indicator 0 year, to confirm proper operation and coverage of the environment use 2 or 3 pulse 3 2 ' count selection. \cap detector PULSE Tamper Switch **WIRE SIZE REQUIREMENTS** Note: For Long Range Lens set pulse count to 2. Use #22 AWG (0.5mm) or wires with a larger diameter. Pulse Coun Use the following table to determine required wire gauge **LED ENABLE / DISABLE JUMPER** Jumper (diameter) and length of wire between the detector and the control panel. Set jumper to ON position to (Do not touch) LED Wire Length 200 300 400 800 . . m enable LED. Wire Diameter mm .5 .75 1.0 1.5 Fig. 7 OFF ON Set jumper to **OFF** position to Wire Length 800 1200 2000 3400 ft disable LED. LED -Wire Gauge 22 # 20 18 16 **BRACKET INSTALLATION OPTION LONG RANGE CURTAIN OPTION VISIBLE LIGHT FILTER OPTION** (1) Select WALL or CEILING bracket adapter (4) To fit lens press it into (2) To fit L/R mask remove (1) Remove lens, by pressing (2) Bend the FILTER 3 the cover from the front until "CLICK" is heard ooth lens hooks to outside and and place in the center the center of lens housing pushing the lens to the front. (3) Insert the suitable Adapter into Bracket Base (2) Insert the Bracket base NUT into the







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TECHNICAL SPECIFICATIONS

Detection Method	Quad (Four element) PIR
Power Input	8.2 - 16 Vdc
Current Consumption	Standby: <mark>8mA</mark> (± 5%)
	Active with LED: 10mA (± 5%)
	Active w/o LED: 6mA (± 5%)
Detection Range	18m, Adjustable
Mounting	Ceiling or Wall
Pulse Width	Adjustable
Alarm Period	2 sec.
Alarm Output Relay	N.C 28Vdc 0.1A with
	10 Ohm in line resistor
Tamper Switch	N.C 28Vdc 0.1A with
	10 Ohm in line resistor
Warm Up Period	60sec (± 5sec)
Operating Temperature	-20°C to 50°C
Operating Humidity	95% max relative humidity
Range	non condensing
Storage Temperature	-30°C to 70°C
RFI Protection	30V/m 10 -1000MHz
EMI Protection	50,000V electrical
	Interference from lightning
Dimensions	90.5mm x 61mm x 37.5mm
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VIDICON reserves the rights to change specifications without prior notice

WARRANTY

VIDICON - WARRANTY POLICY CERTIFICATE

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workmarship under normal use and service. Repaired products shall be warranted for the remainder of the original Warranty Period.

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This limited Warranty Certificate is the Purchaser's connection with the products, including without limitation of or defects or malfunctions of the products. This Warranty Certificate replaces all other warranties and liabilities, whether oral, witten, (non-mandatory) statutory, contractual, in to for ortherwise.

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