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V40D

V40Q

V40PI

12m PIR Detector

12m Quad PIR Detector

12m Pet Immune PIR Detector

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General Description

The V40 series includes the following models:

- ◆ V40D: Passive Infrared Detector with Dual element
- ◆ V40Q: Passive Infrared Detector with Quad element
- ◆ V40PI: Passive Infrared Detector with Pet Immunity
- ◆ The V40 series also includes:
 - ◆ V40DT: Dual Technology Detector offering both MW and PIR technologies
 - ◆ V40QDT: Dual Technology Detector offering both MW and Quad IR technologies
 - ◆ V40DTPI: Dual Technology Detector with Pet Immunity

Installation Instructions

Preliminary Considerations

- ◆ Choose the mounting location after careful consideration of the protected area.
- ◆ The detector should be located so that an intruder will cross the infrared beam pattern.
- ◆ Do not mount the unit in direct sunlight or near heat sources.
- ◆ Installation height should be between 2m - 3m and at an optional 2.5m for the **Long Range** (LLPL02) model.
- ◆ **PET IMMUNITY:** In order to optimize pet immunity the following guidelines are recommended:
 - Mount the sensor (V40PI) vertically at right angles to the floor.
 - Make sure an animal cannot get on height by jumping on furniture or shelving.
 - Do not mount unit opposite stairways where animals have access.

Front Cover Removal

Remove the front cover by twisting a flat screwdriver in the slot between the cover and the base at the bottom of the detector.

Mounting Procedure

- ◆ Remove the desired knockouts in the detector base for the mounting screws and for cable entry.

- ◆ Insert the cable and attach the base to the wall or corner.
- ◆ Swivel — optional (except of V40PI model)

Terminal Connections

Wire the cable to the terminal block at the bottom of the PC Board as follows:

- 12 VDC: power supply inputs
- ALARM:** NC dry contact switch
- TAMPER:** NC dry contact switch

PC Board Adjustment

Loosen the PC Board holding screw. Adjust the PC Board at the appropriate scale position according to the table:

Scale Position	Room Size
Short	6x6 m
Long	12x12 m

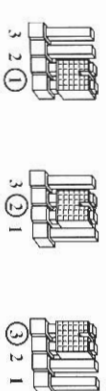
- The V40PI model has only one scale position fit for 12x12 m.
- Typical mounting height: 2.5 meters (8.2 ft).

Long Range: Adjust the PC Board at the 'LONG' position (use 2.5m mounting height).

Jumper Settings

To disable the LED indication, remove the LED jumper and place it on one pin only
To enable the LED indication, place the LED jumper over both pins.

PULSE COUNT:



For Long Range (LLPL02) model use Pulse 1 position.

Walk Test

Replace the front cover during the walk test. Apply power and wait at least two minutes for the detector to stabilize. Walk through the entire protected area and observe the LED to confirm full coverage. See fig. 1:

	Top view	Side view
Wide Angle (LLPL01) V40D		
Long Range (LLPL02) V40D		
Wide Angle (LLPL01) V40Q		
Long Range (LLPL02) V40Q		
Wide Angle (LLPLPT) V40PI		

Procedure for Changing Lenses

A pigmented lens is attached to the outside of the front plastic cover by four clips.

1. Push on each one of the four clips from inside of the cover.
2. Lift the Lens from the outside of the cover.
3. Select the desired lens and make sure that the long pin is pointed upwards.
4. Insert two clips on one side of the lens into the matching holes in the cover and push them inside until click.
5. Repeat step 4 with the two clips on other side of the lens.
6. At the end, verify all four clips are holding the cover.

Specifications

	V40D	V40Q	V40PI
Volumeitic		12m x 12m, 90°	
Installation Height		2-3m	2.4-2.7m
Pet Immunity		-	30kg (66 lbs) dog
Operating Voltage	9 to 16 VDC		
Current	12mA at 12V max 18mA at 16V		9mA at 12V, max 13.5mA at 16V
Alarm Contacts	0.1 amps, 24 volts, NC		
Tamper Contacts	0.1 amps, 24 volts, NC		
Optical Filtering	white light protection, pigmented lens		
Operating Temperature	-10 to +50°C (-14 to +122°F)		
Storage Temperature	-20 to -55°C (-4 to +131°F)		