

DT-400T Series

DUAL Technology Motion Sensor K-Band Technology



DT-435T
DT-435TC
DT-450T
DT-450TC

DUAL TEC[®]

The world's leading dual technology motion sensor.

Features

- **Microwave/PIR Technology**
The use of dual technology provides excellent detection while virtually eliminating false alarms and costly service calls.
- **Patented Microwave Activation Circuit**
This exclusive patented feature helps eliminate false alarms by ensuring every infrared-generated signal is confirmed by a solid moving target.
- **Microwave Supervision**
Independent circuit supervises microwave against failure.
- **Microwave Range Adjustment**
Detection pattern can be easily adjusted to suit each individual application.
- **Automatic Temperature Compensation**
No loss of sensitivity as room temperature nears body temperature.
- **Patented "Look-Down" Zones**
Superior detection capabilities are provided by detection patterns that begin directly beneath the sensor and extend to its maximum range.



IntelliSense[®]

DT-400T Series

Specifications

Physical Dimensions

White, high impact, ABS plastic housing
 5" H x 2 7/8" W x 2 1/3" D
 (13 cm x 7 cm x 6 cm)

Mounting

Mount on walls or in corners; optional brackets available for ceiling and swivel mounting; maximum range obtained at height of 7'6" (2.3 m).

Power Requirements

9 - 14 VDC
 35 mA max at 12 VDC

Tamper Switch

Form A (N.C.) switch rated
 25 mA, 30 VDC

Alarm Relay

DT-435T, DT-450T
 Energized Form A (N.C.) reed relay
 rated 100 mA at 30 VDC

DT-435TC, DT-450TC

Energized Form C (N.O./N.C.) reed
 relay rated 500 mA at 30 VDC

Microwave Frequencies

Center band 10.525 GHz (USA)

Microwave Supervision

Independent circuit supervises microwave
 against failure.

Operating Temperature

32°-120°F (0°- 49°C); 5% to 95% relative
 humidity, non-condensing

RFI Immunity

30 V/m from 10 - 1000 MHz

White Light Immunity

PIR can withstand 60,000 candlepower at
 10' (3 m)

Automatic Temperature Compensation

No loss of sensitivity as room
 temperature nears body temperature

Approvals / Listings

UL Listed
 ULC
 CE

Features

Detection Technology

PIR
 Microwave

PIR Fields-Of-View (Edges)

Long range: 44 (2 overlapping tiers of 22)
 Intermediate: 14
 Lower: 8
 Look-down: 6

Sensitivity

2-4 steps within field-of-view

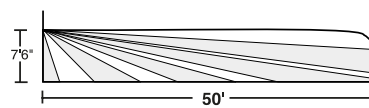
DT-400T Series Products

Model	Range	Approvals/Listings
DT-435T	35' x 30' (11 m x 9 m)	FCC, UL, ULC, IC, CE
DT-435TC	35' x 30' (11 m x 9 m)	FCC, UL, ULC, IC, CE
DT-450T	50' x 40' (15 m x 12 m)	FCC, UL, ULC, IC, CE
DT-450TC	50' x 40' (15 m x 12 m)	FCC, UL, ULC, IC, CE

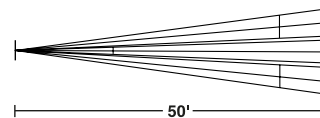
Detection Patterns

Barrier Pattern

SIDE VIEW

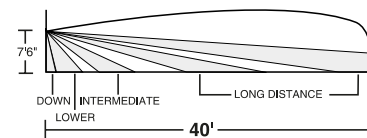


TOP VIEW

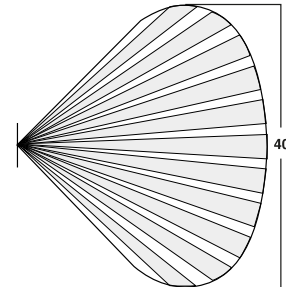


Wide Angle Pattern

SIDE VIEW

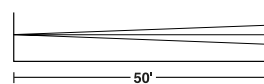


TOP VIEW

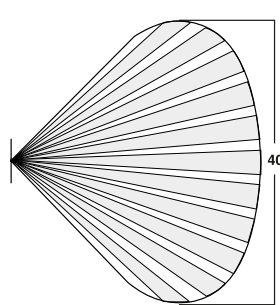


Pet-Alley Pattern

SIDE VIEW



TOP VIEW



These patterns show the DT-450T/DT-450TC
 and are to be used as a reference for the
 DT-435T/ DT-435TC.

Accessories

Lens Option Kit

P/N 0-000-400-05