

DT-900 SERIES

FEATURES

Technology
PIR for intrusion detection
Microwave for intrusion detection
Active infrared for anti-masking (DT-900 & DT-906 only)

Digital Fluorescent Light Filter
Digital filter virtually eliminates interference caused by fluorescent lighting.

Three Microcontroller-based Sensitivity Modes
Sensor sensitivity can be set to high for fastest capture, to normal, or to low for maximum false alarm immunity in harsh environments.

Sensitivity
2 to 4 steps within field-of-view, depending on sensitivity setting selected.

Zero Clearance Bug Guard
The bug guard provides zero clearance, protecting the pyro chamber from insects that can cause false alarms.

Small Animal Immunity
The sensor offers immunity to small animals commonly found in commercial conditions (birds, rodents, snakes).

Installer-Friendly Design
The DT-900 Series sensor was designed with the installer in mind: large wiring space, protective clear plastic covers over the circuit boards to prevent damage, two end-of-line terminals, flashed over LEDs visible at great distance, a fast-install wall mounting plate for the included swivel mounting bracket, and easy vertical and horizontal adjustment.

Mirror Optics for Long Range
The DT-900 Series utilizes custom designed mirror optics to provide effective capture at long range. Each model is easily selectable between two ranges.

LED Diagnostics
The LEDs will display codes to indicate an anti-masking condition, INFORMER condition, trouble condition, and recallable codes to indicate INFORMER results and whether or not there was a self-test failure.

Advanced Commercial/Industrial Features
In addition to anti-masking (DT-900 & DT-906), the DT-900 Series has a remote LED enable input, command input for initiating a self-test remotely and CENELEC two wire input options.

PIR Fields-of-View (Edges)			
61 m (200') Range		27 m (90') Range	
Long:	2	Long:	18
Intermediate long:	6	Intermediate long:	18
Intermediate:	4	Intermediate:	16
Intermediate lower:	4	Intermediate lower:	12
Lower:	8	Lower:	8
Look-down:	2	Look-down:	2
37 m (120') Range		15 m (50') Range	
Long:	6	Long:	18
Intermediate long:	4	Intermediate long:	16
Intermediate:	4	Intermediate:	12
Lower:	8	Lower:	8
Look-down:	2	Look-down:	2

SPECIFICATIONS

Physical Dimensions: 20 cm x 17 cm x 15 cm (8" x 6 1/2" x 6")
Weight: Product, 1.36 kg (3 lbs) Pkgd Product, 1.6 kg (3.5 lbs)

Alarm Relay: Energized Form C; 25 VDC, 125 mA 22 ohm series protection resistor

Tampers: Wall & bottom cover (DT-900 & DT-906), Top cover (all models) 30 VDC, 25 mA (N.C.)

Anti-Mask (DT-900 & DT-906) & Trouble Relays: De-energized Form B (Normally closed) relays, 30 VDC, 25 mA

Power Requirements: 10-15 VDC; 35 mA (max) at 12 VDC AC ripple; 3 V peak-to-peak at nominal 12 VDC

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

PIR White Light Immunity: 6500 LUX

RF Immunity: 30 V/m, 10 MHz to 1000 MHz

Input 1 & 2: Self-test initiate; Active low 0 to 1.5 V, Inactive high 5 to V+

Optimal Mounting Height Range: 2 m (6') minimum to 3.8 m (12') maximum

Microwave Frequency: X-Band

ESD Immunity: ± 10 kV

Approvals/Listings: UL Listed, CE, ULC, C-Tick

FEATURES	DT-900	DT-901	DT-906	DT-907
Range	15 x 12 m (50' x 40') or 27 x 21 m (90' x 70')	15 x 12 m (50' x 40') or 27 x 21 m (90' x 70')	37 x 3 m (120' x 10') or 61 x 5 m (200' x 15')	37 x 3 m (120' x 10') or 61 x 5 m (200' x 15')
Sensor Look-Down	Yes	Yes	Yes	Yes
Microcontroller Processing	Yes	Yes	Yes	Yes
Anti-Masking	Yes	No	Yes	No
Sensitivity Adjustments	Yes	Yes	Yes	Yes
Separate Outputs for Trouble & Anti-Mask	Yes	No	Yes	No
Alarm Relay	Form C	Form C	Form C	Form C
Swivel Mount Bracket	Included	Included	Included	Included
Tamper Switch on Housing	Yes	Yes	Yes	Yes
Tamper Switch(es) on Swivel Mount	Yes (2)	No	Yes (2)	No
Maximum Recommended Mounting Height	3.6 m (12 ft)	3.6 m (12 ft)	3.6 m (12 ft)	3.6 m (12 ft)
Calibrated Mounting Adjustments	Yes	Yes	Yes	Yes
Self-Diagnostics	Yes	Yes	Yes	Yes
Remote LED Enable	Yes	No	Yes	No
Zero-Clearance Bug Guard	Yes	Yes	Yes	Yes
EOL Terminals	Yes	Yes	Yes	Yes
Temperature Compensation	Yes	Yes	Yes	Yes
Warranty	5 years	5 years	5 years	5 years
Cenelec Conformity	Yes	No	Yes	No
Remote Self-Test	Yes	No	Yes	No

For detailed specifications, ask for our DT-900 Technology Overview.

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DT-900

SERIES

Extended Range
DUAL TEC® Motion Sensor



Building on more than 15 years of dual technology innovation, IntelliSense's new generation DUAL TEC® DT-900 motion sensor provides the features and technology you need for large commercial and industrial applications.



The DT-900 Series: Impressive Performance, Impressive Coverage.

The sensor’s exclusive Queue Logic processing provides ultra-reliable intruder capture via the industry’s most advanced processing scheme.

Incoming signals are held in a queue and analyzed simultaneously to ensure that no signals are overlooked or prematurely discarded and that false signals are eliminated. Further innovations include IntelliSense’s anti-sabotage features—active infrared for anti-masking, look-down lens, tamper switches, and the

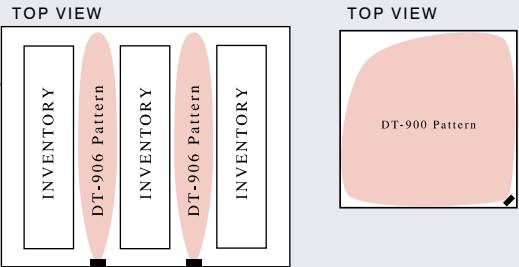


patented INFORMER® function. The DT-900 Series also provides the flexibility to choose between two distinctly different detection patterns simply by rotating its unique double-sided segmented mirror. These exclusive features, combined with the advanced technology inherent in all IntelliSense sensors, gives you protection you can trust in challenging extended range applications.



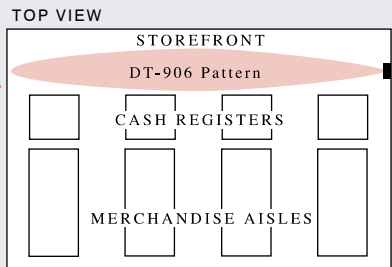
Warehouse/Assembly Areas

The DT-900 Series is ideal for warehouse and assembly area applications. Choose the sensor that offers the detection pattern you need. All models are immune to common warehouse pests such as birds and rodents, and the DT-900 and the DT-906 models provide anti-masking to guard against sabotage.



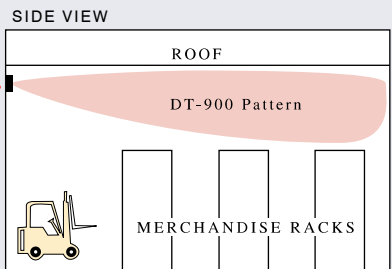
Large-Scale Retail

Now one sensor can do the job of many, thanks to extended range coverage. The long, narrow pattern provides exceptional long range coverage (up to 61 m/200 ft) for storefront and aisle applications. Its appearance also conveys the presence of strong security and serves as a visible deterrent to criminals.



Roofs/Ceilings

Protect against break-ins through a skylight or air shaft with the DT-900 Series. By mounting the sensor near the ceiling, you’ll protect the large area between the top of storage racks and the roof. Consequently, an intruder thinking they are bypassing the detection pattern by entering from above will be detected.



QUEUE LOGIC PROCESSING

In Queue Logic Processing, a Motorola® microcontroller retains valid PIR and microwave signals in a queue and analyzes them within a rolling time frame. The sensor looks at incoming PIR and microwave signals simultaneously (non-sequentially), so nothing is ignored. Intruder capture is more reliable because the microcontroller takes into consideration signals that might not have been considered under other processing schemes.

MIRROR OPTICS

The custom designed segmented mirror gives the sensor its long-range capability—with highly effective capture at the furthest points of the range.

TWO DETECTION RANGES

The double-sided optical mirror rotates 180° to give you a choice of two detection ranges.

DT-900/901	DT-906/907
15 m x 12 m	37 m x 3 m
(50' x 40')	(120' x 10') or
or	61 m x 5 m
27 m x 21 m	(200' x 15')
(90' x 70')	

PATENTED 90° LOOK-DOWN ZONES

Look-down zones directly beneath the sensor catch intruders creeping along the wall, detecting attempts to disable the sensor from below.

ACTIVE INFRARED FOR ANTI-MASKING

The DT-900 and DT-906 models send out an infrared beam every few seconds to detect whether someone has tried to mask the sensor by throwing a tarp or box over it. If a mask attempt is detected, the sensor flashes its LEDs and signals the control panel. Anti-Mask remains active 24 hours a day. (Anti-mask is not available on DT-901 & 907 models)

ZERO-CLEARANCE BUG GUARD

Gasketed, clear plastic shields prevent insects from entering the sensitive microwave and pyroelectric chambers.

EASY HEIGHT ADJUSTMENTS

Vertical adjustment markings make it easy for the installer to accurately tilt the sensor. The markings coincide with the chosen range and mounting height.

3 INDIVIDUAL TAMPER SWITCHES

Built-in tamper switches detect attempts to open the top of the sensor, remove the support base cover or pry the unit off the wall. (DT-901 & 907 models have cover tampers only.)

VANDAL-RESISTANT HOUSING

In addition to the tamper switches, the DT-900 is protected by a durable, impact-resistant housing designed to withstand acts of vandalism.

RATCHETED SWIVEL BASE

Horizontal adjustments can be made quickly and accurately to precisely position the sensor for optimum pattern coverage.

