

# DT8320 SERIES

DT8320F5, DT8320AF5, DT8320F5-SN  
and DT8320AF5-SN

## Ceiling Mount Dual Tec® Motion Sensor with Mirror Optics and Anti-Mask\*

Designed for high security commercial indoor environments and large residences, the new ceiling mount DT8320 DUAL TEC® motion detector series with anti-mask\* technology quickly detect intentional and accidental masks or attempts to block the detector, ensuring a trouble condition is immediately sent to the control panel. A 360° field-of-view and an extremely dense and wide detection coverage reduces the need for multiple detectors. Anti-masking technology combined with Honeywell patented sensing technologies, high quality mirror optics and microprocessor-based DualCore signal processing, will improve catch performance and reduce false alarm and trouble conditions.

Beneath the two-piece, easy-open enclosure, installers will find easy access to the wiring terminal and built-in features which simplify the installation experience and reduce installation time. Furthermore, the new detectors come equipped with integrated EOL resistors with easy selectable DIP switches\*\* or two wire V-Plex® technology\*\*\*. A flexible mounting height adjustment dial and an enhanced flash light walk test will reduce time and trips up and down the ladder.



\* DT8320AF5 and DT8320AF5-SN only

\*\* DT8320F5 and DT8320AF5 only

\*\*\* DT8320F5-SN and DT8320AF5-SN only

# FEATURES AND BENEFITS

## HIGH DETECTION COVERAGE

360° field-of-view, extremely dense and wide detection coverage compared to the similar products of the market.

## MIRROR OPTICS

Mirror optics provide the most reliable technology, offering the best detection/false alarm ratio.

## V-PLEX® PATENTED POLLING LOOP TECHNOLOGY

DT8320F5-SN and DT8320AF5-SN sensors are compatible with Honeywell control panels that support V-Plex devices, using two-wire loop technology which offers significant advantages over peer-to-peer wiring or the conventional four-wire multiplex to save you time and money.

## ON-BOARD EOL RESISTORS\*\*\*

No need to add external resistors for zone supervision. Simply flip a DIP switch to suit your control panel.

## REMOVABLE TERMINAL STRIP

Our new, easy-access removable connector provides flexible wiring and easier mounting during installation.

## ALARM AND TAMPER

The DT8320 Series is equipped with a energized Alarm Relay (Form A), Trouble Relay (Form B) and a Cover and Wall Tamper Relay (Form A) for maximum detection reliability.

## DIGITAL ADAPTIVE MICROWAVE THRESHOLDS

DT8320 Series digitally adjusts thresholds to account for room disturbances such as ceiling fans and other repetitive moving objects. The result – excellent false alarm immunity even in “active” rooms.

## SELF-TEST PATENTED SOLUTION

The detector tests the full microwave circuit periodically by sending and receiving a test signal. In case of any anomaly, the detector triggers the anti-mask/trouble relay.

## ADVANCED DUALCORE SIGNAL

Processing (DUAL TEC®) Supports a multitude of advanced functions, including concurrent diagnostics, digital fluorescent light interference filter, digital adaptive microwave threshold, adaptive baselines and bidirectional temperature compensation.

## SUPERIOR IR ANTI-MASK PROTECTION\*

Highly sensitive active infrared anti-masking feature can easily detect blocked, sprayed, or obstruction attempts to disable the detector.

## PIR WHITE LIGHT IMMUNITY

A patented black bug guard reduces false alarms by providing 6,500 lux of white light immunity. This helps reduce false alarm problems caused by lights, flashlights or reflective objects.

## COVERAGE PATTERN MASKING

A set of 60° masks are provided for masking undesired areas (60°, 120°, 180° or 240°).

## FLASHLIGHT WALK TEST

Reduces installation time as the walk test can be enabled by simply waving a flashlight at the detector. Automatically times out.

## VIBRATION PATENTED SOLUTION

Built-in shock feature. In case of vibration, this component overrules the PIR signal and assures the device stays in dual mode permanently.

## QUICK AND EASY INSTALLATION

Integrated screws, adjustable mounting slots and a rotating mounting height adjustment dial enable a quick and easy installation for nearly all surfaces and ceiling heights.

## FLEXIBLE MOUNTINGS

Surface or flush mount on ceilings (flush mount kit DT8300-FMK optionally available); The range is obtained at a mounting height of 2.4m (8') to 8m (26'). Max. detection range at 8m (26') is Ø 21m (70').

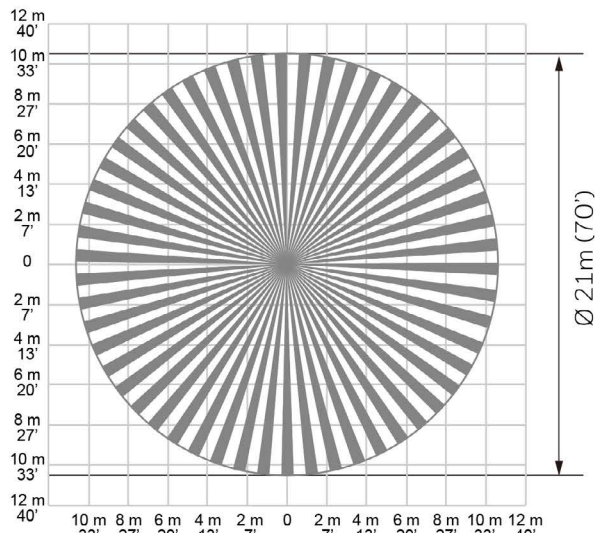
\* DT8320AF5 and DT8320AF5-SN only

\*\*\*DT8320F5 and DT8320AF5 only

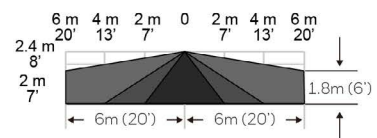
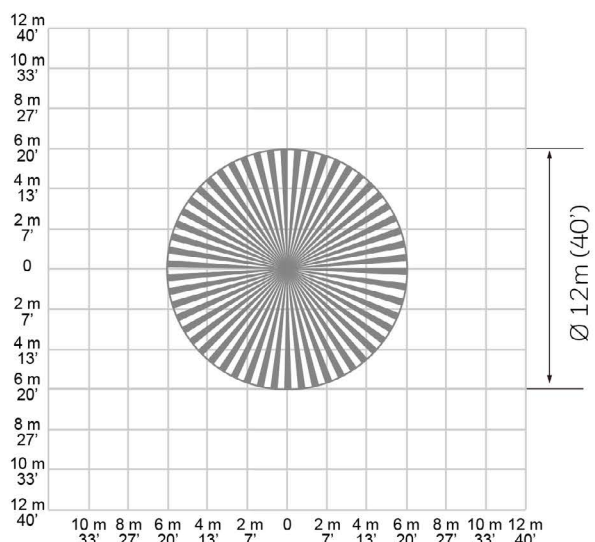
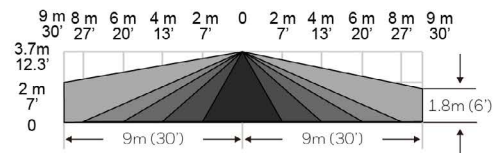
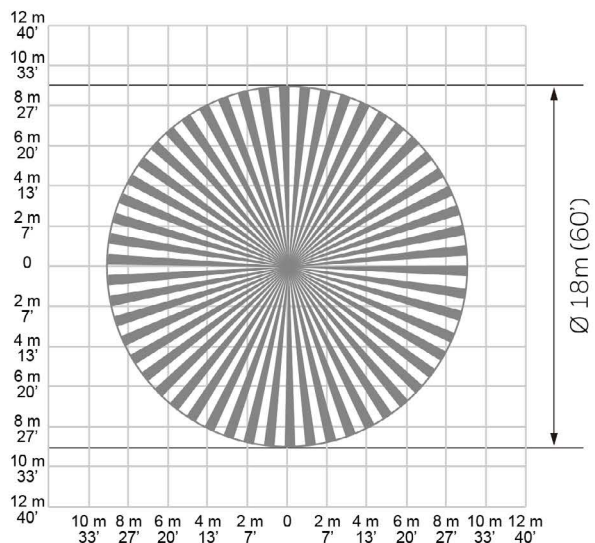
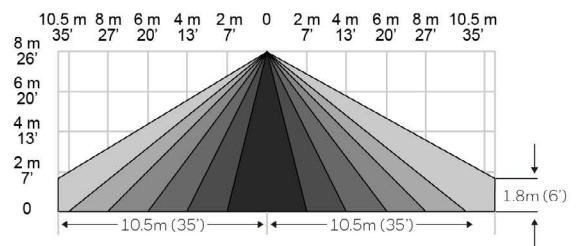
# CEILING MOUNT DUAL TEC® MOTION DETECTORS WITH MIRROR OPTICS AND ANTI-MASK\*

## DETECTION PATTERNS

Top View



Side View



# CEILING MOUNT DUAL TEC® MOTION DETECTORS WITH MIRROR OPTICS AND ANTI-MASK\*

SPECIFICATIONS	
DT8320F5, DT8320AF5, DT8320F5-SN AND DT8320AF5-SN	
Range	360° Ø 21m (70') max.
Mounting Height	2.4m to 8m (8' - 26')
IP Rating	IP30
Power	9.0 - 15 VDC; 10 mA typical, 12mA max. (DT8320F5) / 15mA max. (DT8320AF5) @ 12 VDC; V-Plex version: 9.0 - 15 VDC; 6mA standby, 20mA max. @ 12 VDC
AC Ripple	3 V peak-to-peak at nominal 12 VDC
Tampers	Cover and Wall; (NC with cover installed) Form A; 30 mA, 25 VDC; Magnetic field
Microwave Frequencies	10.587GHz
RFI Immunity	10V/m, 80 MHz-2.7 GHz
PIR White Light Immunity	6,500 Lux typical
Fluorescent Light Filter	50 Hz / 60 Hz
Operating Temperature	-10 - 55 °C (14 - 131 °F)
Relative Humidity	5 to 95%; Non-condensing
Temperature Compensation	Advanced Dual Slope
Alarm Relay (DT8320F5 and DT8320AF5 only)	Energized Form A; 30 mA, 25 VDC, 22 Ohms resistance max
Alarm Relay Duration	3 seconds
Trouble Relay (DT8320AF5 only)	Energized Form B; (NC) 30 mA, 25 VDC; 22 Ohms resistance max.
Dimensions	14.8cm x 16.2cm x 4.7cm (5.8" x 6.4" x 1.8")
Weight	440g/15.5 oz
Approval Listings	DT8320F5 and DT8320F5-SN: EN50131-2-4:2008, Security Grade 2, Environmental Class II, NF&A2P two shields, PD6662:2017 DT8320AF5 and DT8320AF5-SN: EN50131-2-4:2008, Security Grade 3, Environmental Class II, NF&A2P three shields, PD6662:2017

ORDERING	
DT8320F5	Dual TEC® Ceiling Mount Motion Sensor with Mirror Optics
DT8320AF5	Dual TEC® Ceiling Mount Motion Sensor with Mirror Optics and Anti-Mask
DT8320F5-SN	V-Plex® DUAL TEC® Ceiling Mount Motion Sensor with Mirror Optics
DT8320AF5-SN	V-Plex® DUAL TEC® Ceiling Mount Motion Sensor with Mirror Optics and Anti-Mask
ACCESSORIES*:	
DT8300-FMK*	Flush Mounting Kit
DT8300-CPM*	Coverage Pattern Masking Set (4 x 60° masks)

\*Accessories not evaluated by approval

## For More Information

[www.security.honeywell.com/uk](http://www.security.honeywell.com/uk)

## Honeywell Commercial Security

Aston Fields Road  
Whitehouse Industrial Estate  
Runcorn  
Cheshire  
WA7 3DL  
Tel: +44 (0)8448 000 235  
[www.honeywell.com](http://www.honeywell.com)

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FUTURE  
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