Honeywell



DT7450UK2 / MIC-UK

DUAL TEC® Motion Sensor

Designed for tough, commercial environments, DT7450UK2 and DT7450MIC-UK Motion Sensors achieve reliable protection with improved false alarm immunity through DualCore™ signal processing. Optimum performance is achieved using K-Band microwave technology and Uniform Sensitivity Optics. Furthermore the DT7450UK2 offers integrated EOL resistors which will save on installation time.

DT7450MIC-UK

With its built-in microphone, the DT7450MIC-UK, Alarm verification will reduce significantly the alarm monitoring and intervention cost of the security installations. Using the most proves motion sensors in security where already over a million is installed, Honeywell offers you a microphone on board where audible alarm verification can be perform over a simple pair of security cable.

Features:

Advanced DualCore Signal Processing

DualCore signal processing analyzes PIR and microwave signals through the DT7450UK2 microcontroller. DualCore processing supports a multitude of advanced functions, including concurrent diagnostics, digital fluorescent light interference filter, digital adaptive microwave threshold, adaptive baselines, and bi-directional temperature compensation.

Superb Detection Through K-Band Technology

K-Band microwave technology delivers sharp detection without holes or weak spots. The custom made source offers pattern shaping to fill the protected area with a broad, balloon-shaped pattern which matches the PIR pattern. It also offers pattern containment to reduce the penetration of microwave energy through walls.

Self-Testing for Consistently Reliable Operation

Concurrent diagnostics assure optimum performance and reliability. Self-testing is performed upon power-up and at least once every hour on the PIR, microwave, PCB circuitry and temperature compensation circuitry.

DualCore Signal Processing

PIR and microwave signals are analyzed in the microcontroller in multiple domains, including amplitude, time, frequency and duration to provide

superior false alarm immunity without compromising detection. DualCore processing not only supports alarm functions, but also advanced temperature compensation, diagnostics, and false alarm features.

Uniform Sensitivity Optics

The custom-designed Fresnel lens provides the same sensitivity for human targets at the edge of the pattern as exists directly in front of the sensor, giving the DT7450UK2 consistent coverage throughout the protected area.

Built-in microphone (DT7450MIC-UK)
Adjusting level Microphone with potentiometer

DT7450UK2 / DT7450MIC-UK

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Specifications:	
Range	15 x 18 m.
EOL resistors	Alarm: 1K, 2.2K, 4.7K & 5.6K ; default = 1K
(DT7450UK2 only)	Tamper: 1K, 2.2K, 4.7K & 5.6K; default = 1K
Detection zones	22 long range, 12 intermediate, 6 lower,
	4 look- down
PIR sensitivity	Low (3-5 steps) and High (1-3 steps)
Frequency	24.200GHz (K-Band)
Mounting height	2.3m optimal
Power requirements	7.5 – 16V dc, 25 mA typ., 30mA max at 12V dc,
	AC Ripple: 3V peak-to-peak at 12V dc nominal
Alarm relay	Form A (NC) / 125mA@25 Vdc, max. 20 Ohm,
	protective resistor
Tamper	(NC) 50mA, 24V dc
Self-test intervals	Microwave Supervision: Continuous
	PIR Self-Test: Once every hour
	Temp. Compensation: Every 30 seconds
Sensitivity	Low (Pulse count 2): 3-4 steps
	High (Pulse count 1): 2-3 steps
Microphone output	15 V peak-to peak; 10 mA max (DT7450-MIC)
Operating temperature	-10°C to +55°C
Temp. compensation	Advanced dual slope
Relative humidity	5% - 95% non condensing
RF Immunity	30 V/m from 10MHz to 1000 MHz
PIR White Light Immunity	6,500 Lux typical
Dimensions	119 x 71 x 42 mm (HxWxD)
Weight	185.5 g.

Ordering:

DT7450UK2 DUAL TEC, 18m, wide angle

DT7450MIC-UK DUAL TEC, 18m, wide angle with built-in microphone

Accessories:

SMB10 White swivel mount bracket (5 pack) SMB10C White ceiling mount bracket (5 pack)

SMB10T Tampered white swivel mount bracket (5 pack)

Approvals:

- EN50131-1, PD6662:2004 with Amendments 1 & 2 and TS50131-2-4, grade 2, Environmental Class III
- CE

Honeywell Security & Data Collection

Newhouse Industrial Estate

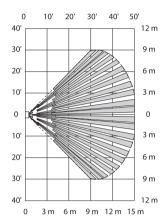
Motherwell Lanarkshire ML1 5SB Scotland

Tel:+44 (0) 1698 738200 Fax: +44 (0) 1698 738300 www.honeywell.com/security/uk Honeywell reserves the right to alter the specification of products without

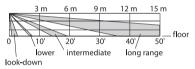
prior notice.

Detection Patterns:

Top View



Side View



DT7450MIC-UK board





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