Each DS9370 Series TriTech PIR/Microwave Motion Detector model is panoramic and uses several patented processing techniques to provide excellent catch performance with freedom from false alarms. Each model can be mounted on ceilings as high as 7.6 m (25 ft). With three separate PIR sections that are fully adjustable, the DS9370 Series provides coverage integrity at all mounting heights, plus the ability to customize the coverage for specific areas.

### Functions

**Signal Processing**
Uses passive infrared and microwave technologies to provide an alarm condition when both fields of protection are simultaneously activated. Alarm signals must meet the signaling requirements of both technologies to activate an alarm.

**First Step Processing**
FSP allows virtually instant response to human targets without sacrificing false alarm immunity to other sources. By adjusting its sensitivity based upon signal amplitude, polarity, slope and timing, FSP eliminates the need for the installer to select the sensitivity level for the application. Each sensor is processed individually and both must agree there is an alarm before the alarm relay is activated.

**Microwave Signal Processing**
Adaptive processing adjusts to background disturbances. This helps to reduce false alarms while maintaining catch performance.

**Microwave Supervision**
Patented fully supervised microwave provides single technology coverage in the event the microwave subsystem fails.

**Test Features**
- High efficiency LED and light-pipe system provide walk test indication that is easily viewable from any angle and at any mounting height.
- Alarm memory feature allows detector to latch the alarm LED to aid in response.
- Remote LED walk-test control allows the LED to be enabled or disabled using a switched input without accessing the detector.
Certifications and approvals

<table>
<thead>
<tr>
<th>Region</th>
<th>Regulatory compliance/quality marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>DS9370: AUS C-tick</td>
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<tr>
<td>China</td>
<td>CCC 2004031901000038</td>
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<tr>
<td>Australia</td>
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<td>USA</td>
<td>UL 20190115; UL639 – Standard for Intrusion-Detection Units</td>
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<td>Brazil</td>
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</tr>
<tr>
<td>Singapore</td>
<td>iDA LPREQ-S0154-2004 [DS9370]</td>
</tr>
</tbody>
</table>

Installation/configuration notes

Mounting Considerations
The mounting height range is from 2.4 m to 7.6 m (8 ft to 25 ft). The recommended mounting height range is from 3.7 m to 7.6 m (12 ft to 25 ft). The coverage area can be set between 9.1 m and 21.3 m (30 ft and 70 ft). If mounted at 2.4 m (8 ft) high, the coverage area can be set between 6.1 m and 12.2 m (20 ft and 40 ft). If mounted at 3 m (10 ft) high, the coverage area can be set between 6.1 m and 15.2 m (20 ft and 50 ft). These detectors can be mounted directly on the ceiling or on a standard 9 cm (3.5 in.) rectangular electrical box.

The maximum range of the detector depends on the mounting height and the vertical adjustment of the PIR coverage pattern. In areas where part of the area needs a targeted coverage, the optical modules can be adjusted for the correct coverage.

A masking kit containing two 120° and two 90° masks is included to allow masking unwanted areas. Apply the masks to the outside of the detector. With the supplied masks, you can mask 90°, 120°, 180°, 210°, 240°, or 330°.

Coverage Information
Provides 360° x 21 m (70 ft) diameter coverage when the detector is mounted at 3.7 m to 7.6 m (12 ft to 25 ft).

Provides 360° x 15 m (50 ft) diameter coverage when the detector is mounted at 3 m (10 ft). 12 m (40 ft) when mounted at 2.4 m (8 ft). Pattern consists of 69 zones in 21 barriers. Each barrier is 11 m (35 ft) long and 1.5 m (5 ft) wide at 11 m (35 ft). The barriers are grouped into three groups of seven barriers each. Each group has vertical adjustment for customized coverage.

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Technical specifications

Enclosure Design
Design | Modular chassis and hinged mounting base design provide easy access to field setup switches and wiring.

Dimensions | 8.9 cm x 17.8 cm (3.5 in. x 7 in.)

Material | High impact ABS plastic enclosure

Environmental Considerations

Operating Temperature | -40°C to +49°C (-40°F to +120°F) For UL Certificated installations, 0°C to +49°C (+32°F to +120°F)

Radio Frequency Interference (RFI) Immunity | No alarm or setup on critical frequencies in the range from 26 MHz to 950 MHz at 50 V/m.
### Mounting

<table>
<thead>
<tr>
<th>Height Range</th>
<th>3 m to 7.6 m (8 ft to 25 ft) recommended</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Mounts directly to ceiling or to standard 10.2 cm (3.5 in.) octagonal electrical box.</td>
</tr>
</tbody>
</table>

### Outputs

- **Alarm**: Form C Solid State relay rated at 3.0 W, 125 mA at 28 VDC for resistive loads.
- **Tamper**: Cover and ceiling tamper. Normally Closed (with cover in place) tamper switch. Contacts rated at 28 VDC, 125 mA maximum.

### Power Requirements

- **Current**: 19 mA standby, 39 mA in alarm.
- **Voltage**: 9 VDC to 15 VDC

### Ordering information

**DS9370 Motion detector 360° ceiling 70ft (21m)**

Provides PIR and microwave, 360° x 21 m (70 ft) diameter coverage and 2.4 m to 7.6 m (8 ft to 25 ft) mounting height. 10.525 GHz. White.

Order number **DS9370**

**DS9370-C Motion detector 360° ceiling 70ft (21m)**

Provides PIR and microwave, 360° x 21 m (70 ft) diameter coverage and 2.4 m to 7.6 m (8 ft to 25 ft) mounting height. 10.588 GHz. White.

Order number **DS9370-C**

**DS9370-BEL DS9370 FOR BELGIUM**

Provides PIR and microwave, 360° x 21 m (70 ft) diameter coverage and 2.4 m to 7.6 m (8 ft to 25 ft) mounting height. For use in Belgium. 10.525 GHz. White.

Order number **DS9370-BEL**

**DS9370-CHI Motion detector 360° ceiling 70ft (21m)**

For use in China. Provides first step processing, 360° x 21 m (70 ft) diameter coverage, and up to 7.6 m (25 ft) mounting height. 10.525 GHz. White.

Order number **DS9370-CHI**

**DS9371 Detector 360° ceiling 70ft (21m) black**

Provides PIR and microwave, 360° x 21 m (70 ft) diameter coverage and 2.4 m to 7.6 m (8 ft to 25 ft) mounting height. 10.525 GHz. Black enclosure and lenses.

Order number **DS9371**