

# 6931P

## Mini outdoor motion sensor, Dual Technology, 24 GHz

### Dual Technology outdoor motion sensor

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The Mini Dual variants are outdoor motion sensors and alarm triggers that use two independent passive infrared detectors plus a microwave sensor module. All three sensors must trigger to cause the detector to signal an alarm. They use triple detection technology to deliver precise, reliable presence detection.

### Easy and quick to install

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Programmable options include a variable pulse count and LED able/disable functionality. Moreover, the integral dual-axis tilt sensor allows 90° of pan and 45° of tilt, which increases the speed of the outdoor installation and provides incredibly accurate aiming of the detection pattern.

### Aesthetics and hidden sensor module

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The design has a neat appearance that gives no visible indication of the orientation of the detector head and totally hides the wiring. It blends smoothly into residential outdoor applications.



### Details

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- New outdoor family containing wired PIR, 2 Dual Technology variants and wireless PIR
- Attractive aesthetics
- 14 to 70° detection angle
- 90° pan & 45° tilt for flexible installation
- Sensor module is hidden
- High dust and humidity resistance (IP65)
- 5 years warranty

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### Technical specifications

#### General

|                  |                                                |
|------------------|------------------------------------------------|
| Technology       | Dual                                           |
| Application type | Wall mount                                     |
| Anti masking     | No                                             |
| Pet immune       | No                                             |
| Camera           | No                                             |
| Processor        | Digital microprocessor with nonvolatile memory |

#### Detection

|                                    |                                                                                   |
|------------------------------------|-----------------------------------------------------------------------------------|
| Max. detection range               | 15 m                                                                              |
| Detection range                    | 14 to 70° detection angle, 15 x 13 m                                              |
| No. of curtains                    | 21                                                                                |
| Vertical optical axis adjustment   | 45° tilt                                                                          |
| Horizontal optical axis adjustment | 90° pan                                                                           |
| Microwave frequency (nom.)         | 24 GHz                                                                            |
| Undercrawl protection              | No                                                                                |
| Fresnel lens                       | 20 zones for each detection element, which can be masked with the curtain sliders |
| Microwave module                   | X-band radar 24 GHz                                                               |
| Customized optics                  | Double silicon shielded quad element eliminates 50,000 lux of white light         |
| Pulse count                        | 1 or 2                                                                            |

#### Wired / wireless

|                |       |
|----------------|-------|
| Wired-wireless | Wired |
|----------------|-------|

#### Inputs / outputs

|                            |                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------|
| Alarm relay characteristic | NC, volt free relay, signal contact 24 VAC/DC @ 50 mA with an integral 25 Ohm series resistor |
| Outputs                    | Silent, solid state, magnetically immune. PIR AND Microwave                                   |

#### Electrical

|                     |                     |
|---------------------|---------------------|
| Power supply value  | 10 to 15 VDC        |
| Current consumption | 8 mA (12 V nominal) |

#### Physical

|                     |                                                        |
|---------------------|--------------------------------------------------------|
| Physical dimensions | 71 x 120 x 75 mm (W x H x D)                           |
| Net weight          | 225 g                                                  |
| Shipping weight     | 325 g                                                  |
| Colour              | Bronze                                                 |
| Material            | High impact ABS plastic with HDPE cover, UV stabilized |
| Mounting height     | 3 to 6 m                                               |
| Mounting height     | Variable up to 6 m / Optimum height 3 m for full range |

#### Environmental

|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| Operating temperature    | -30 to +65°C                                             |
| Environment              | Outdoor                                                  |
| IP rating                | IP65                                                     |
| Temperature compensation | Analogue (thermistor) and digital sensitivity adjustment |

#### LED indication

|                              |
|------------------------------|
| Orange: Microwave activated  |
| Red: PIR activated           |
| Orange & Red: Detector alarm |



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