

# SIM-03

## Digital PIR & Microwave Detectors with Anti-Masking

The SIM-03 is a combination of Passive Infra-Red (PIR) and Microwave Doppler detectors, with PET immune function and anti-mask.

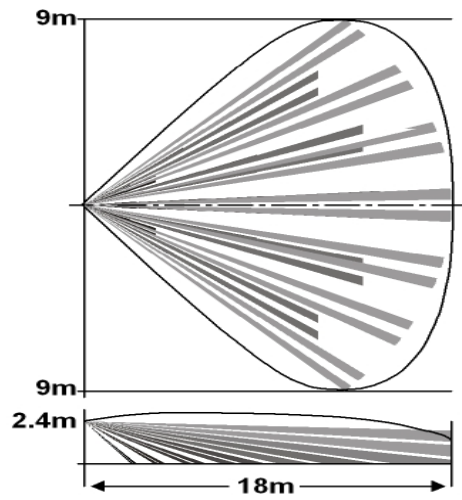
The SIM-03 use Microcontroller for PIR signal analyzing, special ASIC technology for PIR pulse analyzing and unique for anti-mask protection.

### PRODUCT FEATURES

- Quad (Four element) PYRO sensor.
- Microwave detection based on Doppler concept.
- Anti-masking protection with special relay trouble output.
- ASIC VLSI based electronics with movement speed spectrum analysis.
- PIR self-test by applying a short heat pulse.
- 15m Detection Range with Wide Angle Lens.
- User-friendly installation with or w/o swivel bracket.
- Microwave sensitivity adjustment.
- PIR sensitivity adjustment.
- Bi directional temperature compensation.
- PET immunity up to 25Kg.
- White light and environmental immunity



### DETECTION PATTERN



### SPECIFICATION

Detection Method	PIR Quad element Microwave Pulse Doppler - Anti-Masking
Power Input	9 to 16Vdc
Current Draw	Active: 48mA (+/- 5%) Standby: 43mA (+/- 5%)
Temp Consumption	Yes
Alarm Period	2 ± 1 sec
Alarm Outputs	Form A N.C 28Vdc 0.1 A (with 10 Ohm series protection resistor)
AM / Trouble Output	Form A N.C 28Vdc 0.1 A (with 10 Ohm series protection resistor)
Tamper Switch	N.C 28Vdc 0.1 A (with 10 Ohm Resistors) open on cover removal
Warm up Period	30 Seconds
Operation Temp	-10°C ~ +50 °C
Dimensions	123.5mm x 61.5mm x 40mm
Weight	118gr.
Part Number	0062777

### STANDARDS COMPLIANCE

- EN50130-4+A1+A2
- EN301489-3
- EN301489-1
- EN61000-6-3
- EN50130-5
- EN50131-1, EN50131-2-4

Security Grade 2, Environmental Class II