

# SIM-04

## Digital PIR & Microwave Detectors

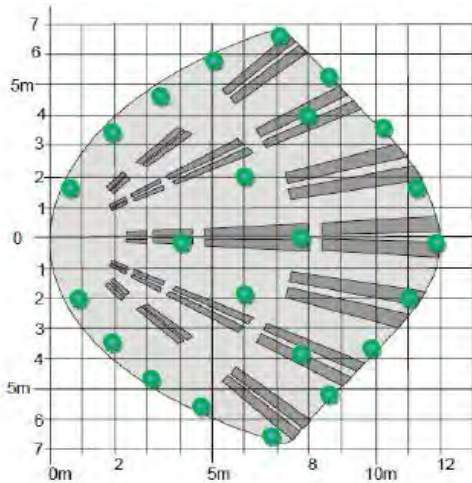
The SIM-04 is a combination of PIR & MW detectors, with PET immune function, providing protection from intruders by PYRO sensor element and MW (based on Doppler concept).

### PRODUCT FEATURES

- Quad (Four element) PYRO sensor.
- Microwave detection based on Doppler concept.
- ASIC VLSI based electronics with movement speed spectrum analysis.
- PIR self-test by applying a short heat pulse.
- 12m 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



### STANDARDS COMPLIANCE

EN50130-4  
EN301489-3  
EN301489-1  
EN61000-6-3  
EN50130-5  
EN50131-1, EN50131-2-2  
Security Grade 2, Environmental Class II

### SPECIFICATION

Detection method	Quad (Four Element) PIR & MW Doppler
MW Frequency	X-Band – 10.525GHz / 10.687 GHz
Alarm period	2 sec (± 1 sec)
Led indicators	Red LED: ON during alarm Green LED: PIR CHANNEL Yellow LED: MW CHANNEL
Warm up period	60sec (± 5sec)
Alarm output	N.C 28VDC 0.1 A with 10 Ohm series protection resistor
Tamper Switch	N.C 28VDC 0.1A with 10 Ohm series protection resistor
Operating voltage	9.6 to 16 VDC
Current draw	Active: 23mA (± 5%) Standby: 19mA (± 5%)
White light filter	3500 Lux up to 6500 Lux with optional filter
RFI protection	30V/m 10 - 1000MHz
EMI protection	50,000V of electrical interference from lightning or power through
installation height	1.8m to 2.4m
Temperature Comp.	Yes
Operating temperature	-10°C to +50°C
Dimensions	123mm x 62mm x 38mm
Weight	120 gr
Part Number	0018720