



# ALARM WIRED DETECTORS

**CROW**  
Electronic Engineering Ltd

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# Wired Detectors

SWAN™ Line

Ceiling Mount Series

Glass Break & Vibration Sensors



## Quad Imaging Technology with Pet Immunity

The Swan™ line features a unique combination of quad element pyro sensor imaging and advanced ASIC based electronics. The line features Pet Immunity that can virtually eliminate false alarms caused by small animals and pets up to 25 Kg.

## Exceptional catch performance and stability

The Swan™ detectors provide an unprecedented level of catch performance, immunity against visible light and electrical transients together delivering outstanding stability in every security application.

## Slim line housing design

The Swan™ line features compact and streamlined housings suited for residential and commercial applications. The housing offers easy access for wiring and good space for terminations.

## Unique mounting bracket kit and special curtain mask

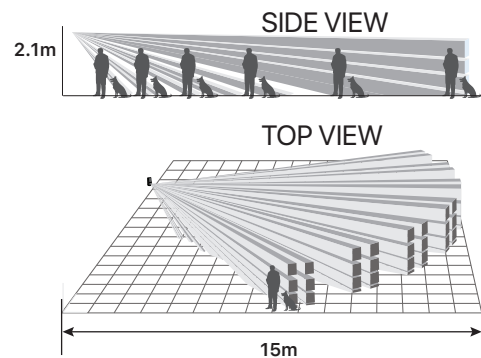
Swan™ detectors are installation height calibration free. They can be wall, corner or ceiling mounted with a user-friendly bracket kit. The Swan™ Line offers a special masking device for adapting the detector's lens to a long range curtain pattern.



**Installation bracket kit for Wall / Ceiling / Corner mounting**



**All models with Pet Immunity up to 25 Kg**



**Detection Pattern**

# SWAN QUAD

## Digital Quad PIR Detector

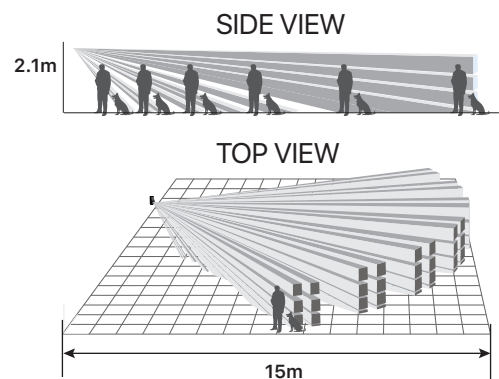
- Bi-directional temperature compensation
- Slim design for residential installations
- Cost effective
- Quad Linear Imaging Technology
- ASIC based electronics
- Immunity to animals up to 25kg
- 15m Detection Range with Wide Angle Lens
- Temperature compensation
- Compact Design for Residential Installation
- Variable pulse width adjustment
- PIR sensitivity adjustment
- Environmental immunity
- Height installation calibration free (1.8m – 2.4m)
- LED Remote function



### SPECIFICATION

Detection method	Quad (Four Element) PIR
Alarm period	2 sec ( $\pm$ 0.5sec)
Led indicators	LED is ON during alarm
Warm up period	60sec ( $\pm$ 5sec)
Alarm output	N.C 28VDC 0.1A with 270hm series protection resistor
Tamper Switch	N.C 28VDC 0.1A with 10 Ohm series protection resistor open when cover is removed
Operating voltage	8.2 to 16 VDC
Current draw	Active: 10mA ( $\pm$ 5%) Standby: 8mA ( $\pm$ 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
Optimum installation height	1.8m to 2.4m
Temperature compensation	Yes
Operating temperature	-10°C to +55°C
Dimensions	92mm x 59mm x 37mm
Weight	53 gr

### Detection Pattern



# SWAN 1000

## PIR and Microwave Detector

- Digital Microwave signal processing
- PIR and Microwave sensitivity adjustment
- Bi-directional temperature compensation
- Quad (Four element) PYRO sensor
- Microwave detection based on Doppler concept
- Height installation calibrations free
- User-friendly installation with or w/o swivel bracket
- 2-way Microwave sensitivity adjustment
- 2-way PIR sensitivity adjustment
- Environmental immunity
- The Swan 1000 provides pet immunity up to 25Kg

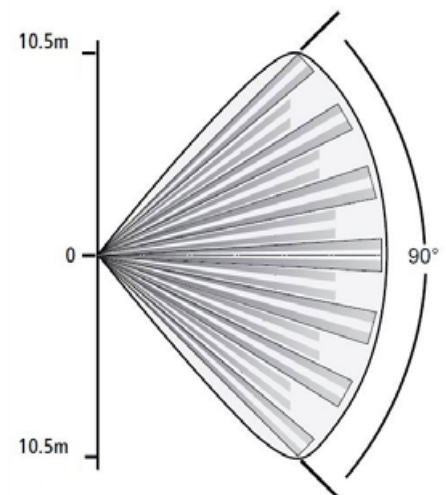


### SPECIFICATION

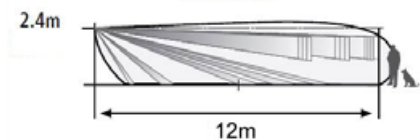
Detection method	Quad (Four Element) PIR & MW Doppler
MW Frequency	X-Band – 10.525GHz / 10.687 GHz / 9.9 GHz
Alarm period	2 sec (± 1 sec)
Led indicators	Green & Yellow LEDs blinking during warm up period and self-testing Red LED: ON during alarm Green LED: PIR CHANNEL Yellow LED: MW CHANNEL
Warm up period	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 open when cover is removed
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
Optimum installation height	1.8m to 2.4m
Temperature compensation	Yes
Operating temperature	-10°C to +50°C
Dimensions	123mm x 62mm x 38mm
Weight	120 gr

### DETECTION PATTERN

#### TOP VIEW



#### SIDE VIEW



# SWAN PGB

## PIR, Shock and Glass Break detector

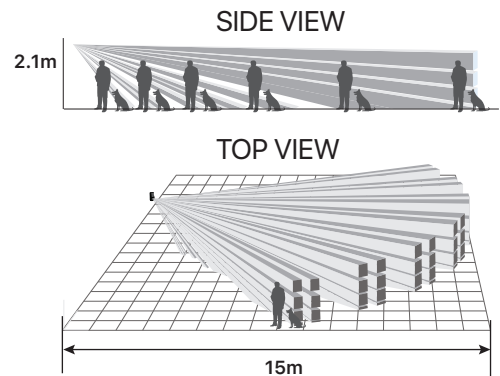
- 2 separate relays for PIR and Glass Break
- Exceptional detection of plated and tempered glass
- Compact design for commercial installations
- Quad (Four element) pyrosensor
- PIR sensitivity adjustment
- GLASS sensitivity adjustment
- SHOCK sensitivity adjustment
- Volume protection
- Automatic temperature compensation
- Height installation calibrations free (1.8m to 2.4m)
- Environmental immunity
- The Swan PGB provides pet immunity up to 25Kg



### SPECIFICATION

Detection method	Quad (Four Element) PIR & Microphone
Detection range	Glass up to 10m ( 90° ); PIR up to 15m (WA lens)
Alarm period	2 sec (± 1 sec)
Led indicators	Yellow LED (GLASS) - glass break signal for testing & adjustment Green LED (SHOCK) - shock signal for testing & adjustment Red LED (ALARM) - alarm signal Fleshing light - glass & break detection or glass & shock & PIR detection Constant light - PIR detection
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 open when cover is removed
Operating voltage	8.2 to 16 VDC
Current draw	Alarm PIR :16.5mA Alarm Shock & Glass: 22mA; Alarm all: 18mA Standby: 16.5 mA
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
Optimum installation height	1.8m to 2.4m
Temperature compensation	Yes
Operating temperature	-10°C to +50°C
Dimensions	123mm x 62mm x 38mm
Weight	110 gr

### Detection Pattern



# TLC-360

## 360° Ceiling Mount PIR Detector

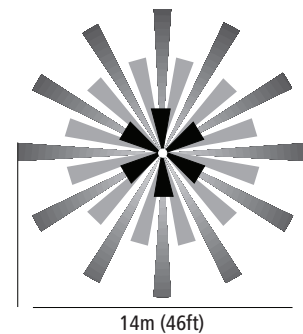
- Unique hard shell spherical lens
- 360° / 14m diameter coverage when mounted at 3.6m
- Complete range adjustment
- ASIC based technology
- Fully sealed optical chamber
- Extra-wide rear wiring channel



### SPECIFICATION

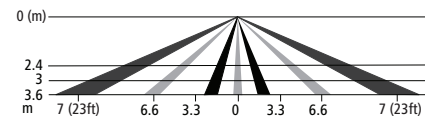
	TLC-360
Detection method	Dual Element PIR
Alarm period	1.6 sec (± 0.5sec)
Led indicators	Yellow LED is blinking during warm up period and self-testing Red LED is ON during alarm
Warm up period	60 sec (± 5sec)
Alarm output	N.C 28VDC 0.1 A with 10 Ohm series protection resistor
Tamper Switch	N.C 28VDC 0.1A with 10 Ohm series protection resistor open when cover is removed
Operating voltage	9.6 to 16 VDC
Current draw	Active: 10 mA (± 5%) Standby: 9 mA (± 5%)
RFI protection	30V/m 10 - 1000MHz
EMI protection	50,000V of electrical interference from lightning or power through
Installation height	3.6m up to 8m with optional HC Lens
Temperature compensation	Yes
Operating temperature	-10°C to +55°C
Dimensions	110mm x 45mm
Weight	123 gr

STANDARD LENS PATTERN  
TLC / SRX - 360  
Top View



14m (46ft)

Side View





# Glass Break & Vibration Sensors

## GBD PLUS

### Shock and Glass Break Sensors

- Shock and/or breakage selectable
- Analyzes two frequencies
- Unique signal analysis ignores environmental disturbances
- Memory LED
- ASIC based electronics
- Sensitivity adjustment
- Ceiling or wall mount



### SPECIFICATION

Detection method	Electro condenser microphone
Detection range	10m, Adjustable
Alarm period	2 sec ( $\pm$ 0.5sec)
Led indicators	Green LED for Shock Yellow LED for Glass Red LED during Alarm
Warm up period	60 sec ( $\pm$ 5sec)
Alarm output	N.C 50mA/24Vdc with 10 Ohm in line resistor
Tamper Switch	N.C 50mA 24Vdc with 10 Ohm in line resistor
Operating voltage	9 to 16 VDC
Current draw	Active: 25 mA ( $\pm$ 5%) Standby: 22 mA ( $\pm$ 5%)
RFI protection	30V/m 10 - 1000MHz
EMI protection	50,000V of electrical interference from lightning or power through
Temperature compensation	Yes
Operating temperature	-20°C to +50°C
Dimensions	78mm x 51mm x 21mm
Weight	40 gr

# VIB-2000

## Shock Sensor

- Compact stylish design with front and back tamper protection
- Unique sensitivity and digital processing for best detection performance
- High false alarm immunity
- Wide range of surface protection including doors, glass surface and surrounds, safes, gun cabinets, etc...



### SPECIFICATION

Detection method	Piezo
Detection range	Up to 6m For concrete, brick or steel walls
Alarm period	2 sec ( $\pm$ 0.5sec)
Led indicators	Red LED is ON during alarm
Warm up period	60 sec ( $\pm$ 5sec)
Alarm output	Form A, N.C 30Vdc @ 0.1 A with 100ohm series protection resistors
Tamper Switch	N.C 30Vdc @ 0.1A with 10 Ohm series protection resistor Open when cover is removed or unit removed from the wall
Operating voltage	9.6 to 16 VDC
Current draw	Active: 10 mA ( $\pm$ 5%) Standby: 9 mA ( $\pm$ 5%)
EMI protection	50Khz to 2Ghz >15V/m
Temperature compensation	Yes
Operating temperature	-10°C to +50°C
Dimensions	85mm x 25mm x 20mm
Weight	35 gr



HEADQUARTERS:

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