



## Hawkeye – Security and Intrusion detection for Industrial/Farm applications

Thank you for purchasing Hawkeye - Security and Intrusion detection for use in industrial and farm security applications. The 'Hawkeye' product from Ideas Unlimited has a PIR (Passive Infra Red) sensor that looks out for movement of living beings, and triggers a security alert appliance like a high intensity halogen lamp, rotating beacon or Industrial siren/hooter.

This product deters an intruder by instilling fear of detection and also alerts the security staff about the intrusion.

### Sensor coverage area

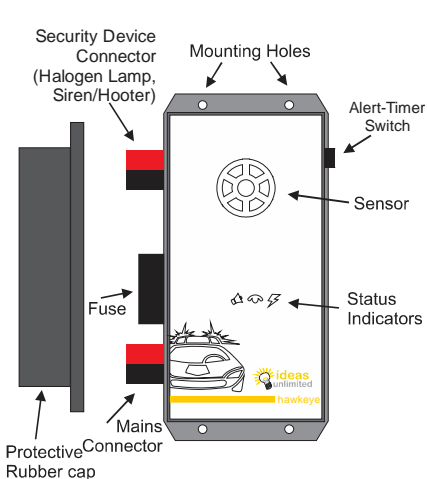
The sensor used is a passive sensor (Does not emit any light or any form of energy). It focuses Infra-red emitted by surroundings on to a IR sensitive photo cell. Based on the model of your unit, the range is specified below.



Typical installation of sensor should be on a roof or chejja looking downwards. Sensor has a range of 20'X20' for normal ceiling heights of 11' or higher. Higher the height, higher the range.




Unit works in outdoor conditions also, provided direct sunlight doesn't fall on the sensor.

## Product description



### Hawkeye Security Product description

#### Status Indicators:

	<b>Power (White)</b>
	<b>Sense (Blue)</b>
	<b>Alert devices on (Red)</b>

#### Alert Timer:

10 Seconds or  
30 Seconds

#### Mains Connector:

(110V-230V Wide  
range, 50-60Hz)

#### Load Connector:

Maximum: 600  
Watts

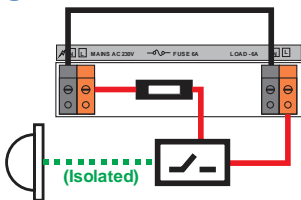
#### Fuse:

6A Glass fuse in  
socket

## Package Contents:

1. Hawkeye-W6A Security unit - 1 No.
2. Protective rubber cap - 1 No.
3. Mounting Screws - 4 Nos.
4. Nylon wall plugs - 4 Nos.
5. Instruction Manual - 1 No.

## Internal wiring reference

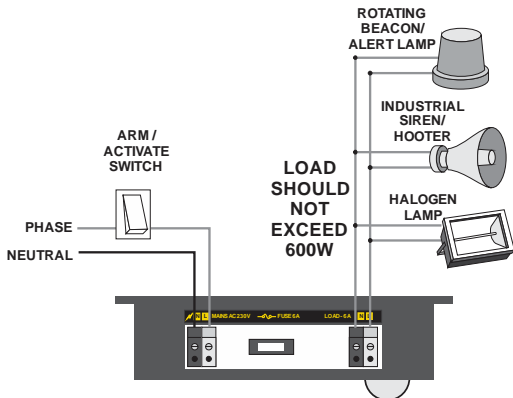


## Product Specification

Parameter	Value
Sensor Range:	20'X20' maximum
Typical output devices:	Hooter/Siren, Halogen Lamps Rotating Beacon Lights, Alarm systems, Buzzers etc. <b>(Not supplied with device)</b>
Operating Voltage:	110-230V AC, 50-60Hz Wide Voltage range
Load Capacity:	600 Watts Maximum
Unit Dimensions:	154 x 85 x 45 mm
Alert Timer Options:	Continuous if intruder continues to be present. 10/30 Seconds after intruder flees, alert is switched off.
Power Consumption	Standby mode: 50-100 milli-Watts Active mode: 350-450 milli-Watts
Electrical Safety Features:	1) 6A Glass Fuse (user-replaceable) present to prevent short-circuit/overloading 2) Higher rating connectors and contacts for safety and reliability. 3) Safety rubber cap to cover connectors for both safety and aesthetics. 4) Shock proof (end user useable) connectors 5) Complete electrical isolation between Sensing and switching circuit

## Installation and Use

Diagrams below illustrate how to install 'Hawkeye' Industrial/Farm Security and Intrusion detection system.



**Figure 1: Installation schematic to retain the switches on all appliances in a room**

The unit can control up to 600W load. Refer to next page for capacity of different models.

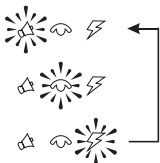
**Note 1:** We recommend you to install an 'Arm/Activate' switch (Switch in Figure 3) which helps in disabling the system when the zone it secures is under legitimate use.

**Note 2:** The unit is design to work 24X7, 365 days a year and consumes negligible amount of power. So it can be left powered on always.

## Startup and Initialization, Operation

When the unit is first powered on, the sensor in the unit requires slightly more than one minute understanding its environment and

tuning itself to surroundings. During this initialization sequence, the front indicators switch on in a slow running sequence.



**Figure 2: Initialization sequence indication**

Once the initialization sequence is completed, the unit will then switch on just power indicator to indicate presence of power.



**Figure 3: Initialized, Power present indicator**

If an intrusion is detected, then the 'sense' indicator (blue) will glow and immediately the 'alert' indicator (red) will switch on. This will trigger all the connected alert devices like halogen lamps, rotating beacon, industrial siren or hooter etc.



**Figure 4: Intrusion detected!**

Once an intrusion is detected, the alert devices are switched on for duration of either 10 seconds (or) 30 seconds based on timer switch option. If the intruder continues to be present in the same area, the alert devices are switched on continuously.

## Timer Selection

Setting	Capacity
10 seconds.	Alert switches off after 10 seconds after intruder flees. If intruder present, alert continues to be active.
30 seconds.	Alert switches off after 10 seconds after intruder flees. If intruder present, alert continues to be active.

## Device Power Consumption

Standby mode: 50 mili-watts

Active mode: 350-450 mili-watts

## Recommended Load Capacity

The table below specifies the load capacity of different models of Movement Sensor Switch.

Model	Sensor Type	Capacity
HAWKEYE-W6A	Wide	(1X6A) 1X600W Load

## Other sensor based products from Ideas Unlimited

We also offer a wide variety of energy saving products based on PIR (Passive Infra-Red) Movement sensor.

### **Movement Sensor Switches for Energy Saving applications:**

**MS101 Series** - Up to 1000W, external fit type, industrial use

**MS102 Series** - Up to 600W, compact external fit type, Home and office use

**MS201 Series** - Up to 600W, concealed fit type, home and office use

**MS301 Series** - Up to 2200W, for Air conditioners, home and office use

## Application Ideas

### Industrial Security:

1. Hazardous areas where humans are barred from entering, to detect intrusion by human beings or animals
2. Storage areas, warehouses and go-downs to detect unauthorized entries at unauthorized times
3. Key entry and exit points of buildings
4. Prohibited areas

### Farm/Agriculture Security:

1. Key entry and exit points around a farm house to detect wild animals or human intrusion
2. Key fence points of a farm where normally wild animal intrusion occurs (May require additional planning to make a fully functional application)

### Commercial/Office Security:

1. Inside Bank vaults and safe areas after locking up, to detect intrusions.
2. Inside prohibited areas
3. Inside premises after closing for the day.
4. Material, documents, information storage areas to detect/deter unauthorized entry.

### Domestic Security Applications:

1. Outdoor, below canopies, window projections
2. Back side of the house, less used areas in the compound which is potential entry point for intruders.

### Night security and deterrence:

1. Jewelry shops, Museums, Industries, offices, Prohibited areas, Shopping malls etc.

## Our Commitment

**Green:** Technologies that are environment friendly

**Economical:** Reduce cost of usage

**Smart Living:** Enhanced living experience

## Authorized Distributor/Dealer



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