LS_OccpancySensor

Descriptions

    Temco's Passive Infrared Occupancy Sensor is a low cost comercial and residential surface mount occupancy sensor. Advanced filtering reduces false triggering due to air movement and lighting changes. The sensor switches a dry contact which is wired to a separate controller. There is a tamper switch terminal as well, when the enclosure is opened up the central controller will be able to signal an alert.

    Main Features:
- Intelligent logic control, anti false alarm efficiently
- Auto temperature compensation
- Pulse count adjustment
- Anti white light interference
- Anti RF interference (20V/m-1GHz)
- Fresnel lens
- Wall installation
- SMT design adopted
- Alarm output N.C./N.O. Optional

Product Profile
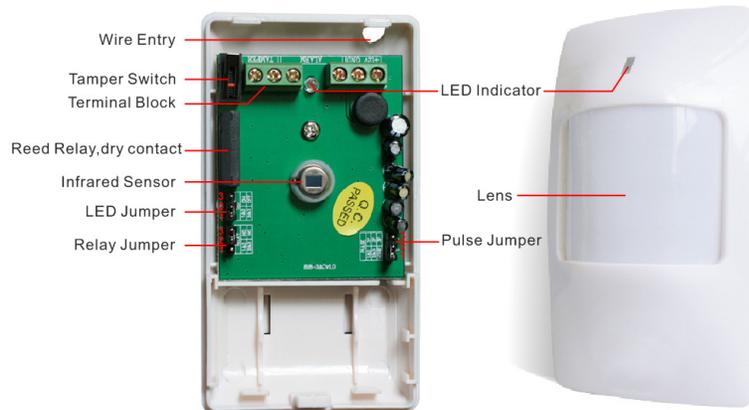
Reed relay parameters

Parameter	Min	Nom	Max	Unit
Switching Voltage			100	Volts
Switching current			0.5	Amps
Carry current			1	Amps
Switching frequency			500	Hz
Contact resistance			150	mΩ

Technical Specifications

Operating voltage:
LS-818-3-24VAC/VDC: 24VAC, 1VA;
LS-818-3-12VDC: 9 to 12VDC,100 mA
Current consumption: 12VDC,≤18mA ;
                   24VAC,≤18mA
Detection distance: 12m
Detecting angle:110°
Self-testing time: about 60S
Operating temperature: -10~+50 °C
Alarm indicator: red LED
Alarm output: Jumper selectable as N.C.or N.O., DC28V, 100mA

Anti tamper switch output: Dry contact DC 28V max, 100mA max
Occupancy Sensor output: solid state, jumper selectable NO or NC, DC28 V,100mA max.
Coverage range: 11 meters,110°
Sensor: dual element infrared sensor
Environment humidity: 95%RH (non condensing)
Anti RF interference: 10MHz ~ 1GHz 20V/m
Mounting: Wall mount
Installation height: 1.7~2.5m
Outline Size: 59(L) * 39.5(W)* 107(H) mm

Terminal Block & Jumper Settings
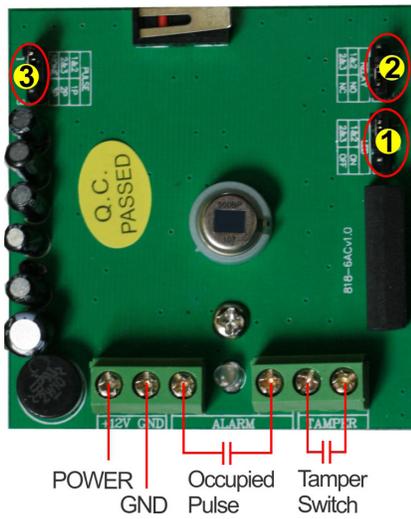
Jumper Settings:

1 LED Jumper   **2** Relay Jumper
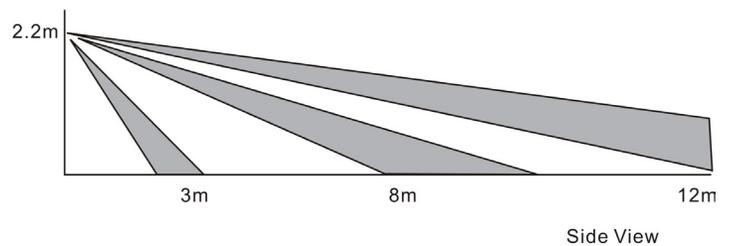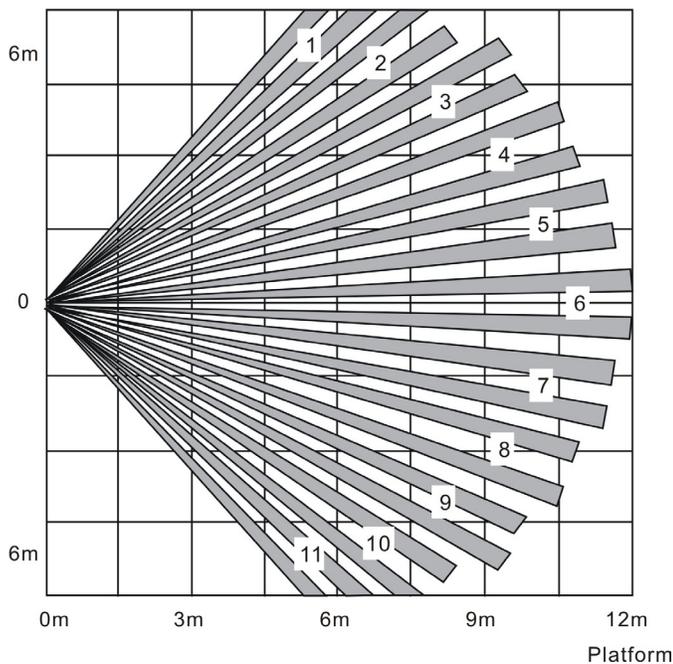
1 2 3 ● ▬ OFF   1 2 3 ● ▬ NC

1 2 3 ▬ ● ON   1 2 3 ▬ ● NO

3 Pulse Jumper (Sensitivity Detection Seclection)

1 2 3 ● ● ● 3 Pulses

1 2 3 ● ▬ 2 Pulses(Low sensitivity detection mode)

1 2 3 ▬ ● 1 Pulse(High sensitivity detection mode)

POWER GND Occupied Pulse Tamper Switch

Detecting Area View

Platform

Side View

Installation Notes

- Avoid install at the out door, places with pets, air-conditioning nearby,derect sunshine,heat source and under rotating objects .
- Surface of installation should be firm with no vibration.
- Installing the detector in the place where intruder passes easily.

Installation Steps

1. Screw the detector bottom off, then open the detector.
2. Screw the PCB off and remove the PCB.
3. Drill a wire hole in the rear housing.
4. Install the rear housing on the suitable position.
5. Connect the terminal block.

Operating Instructions

Function Setting:
1. Relay Jumper: Choose N.C. or N.O. to set the state of alarm output.
according to the alarm panel or controller requirements, NC being the default.
    Short 1&2: N.O.
    Short 2&3: N.C.
2. Sensitivity Jumper: Three settings for low medium and high sensitivity. Note however that setting high sensitivity also increases the possibility of interference from RF. If you are getting false triggering, try setting the sensitivity down one level. The default setting is high.
    Short 1&2: High sensitivity.
    Short 2&3: Medium sensitivity.
    Shut off: Low sensitivity.
3. LED Jumper: This jumper simply enables/diables the on board LED and does not affect the operation of the sensor itself. If the application calls for it you can conceal the detection indication by disabling the LED.
    Short 1&2: LED will trigger when motion is detected.
    Short 2&3: LED will be off always.

Product Setup:
Turning on power and LED indicator will be enabled regardless of the LED jumper settting so as to enable sensing activity confirmation during commissioning and maintenance. This lasts about 60s after which the LED will be enabled or disabled depending on the LED jumper position.

Notice

1. Please install and use the detector according to this manual, don't touch the surface of sensor □□ avoid affecting the sensitivity of the detector. Please shut off power and then clean the sensor by soft cloth with little alcohol if cleaning needed.
2. The product can reduce accident but may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.
3. In order to ensure it can work normally, the power should be kept to supply and get on walking test periodically, once a week is better.

LS-818-6

Descriptions

Temco's Passive Infrared Occupancy Sensor is a low cost comercial and residential surface mount occupancy sensor. Advanced filtering reduces false triggering due to air movement and lighting changes. The sensor switches a dry contact which is wired to a seprate controller. There is a tamper switch terminal as well, when the enclosure is opened up the central controller will be able to signal an alert.

Main Features:
- Intelligent logic control, anti false alarm efficiently
- Auto temperature compensation
- Pulse count adjustment
- Anti white light interference
- Anti RF interference (20V/m-1GHz)
- Fresnel lens
- ceiling installation
- SMT design adopted
- Alarm output N.C./N.O., Anti RF Interface

Product Profile

Wire Entry
Terminal Block
Reed Relay,dry contact
Infrared Sensor
LED Jumper
Relay Jumper
LED Indicator
Pulse Jumper
Tamper Switch
LED Indicator
Lens
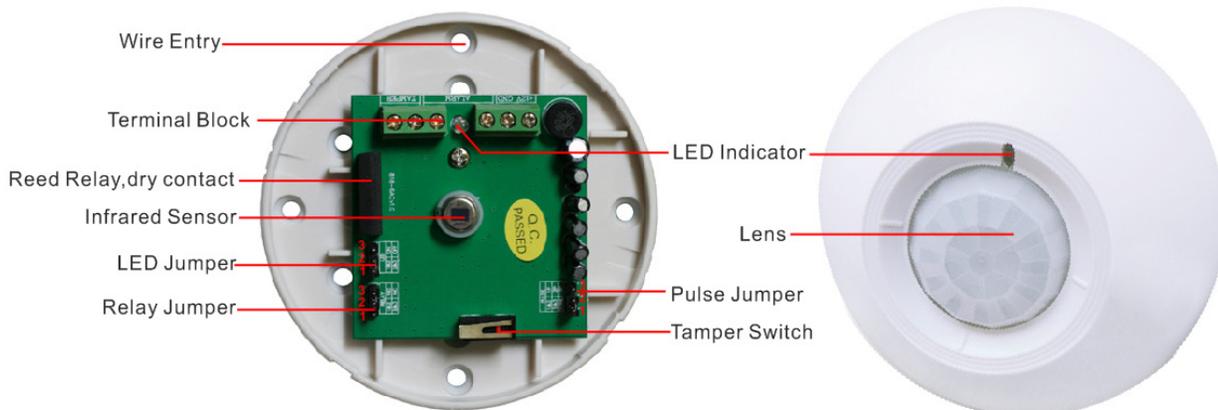
Technical Specifications

Operating voltage:
LS-818-6-24VAC/VDC: 24VAC, 1VA;
LS-818-6-12VDC: 9 to 12VDC,100 mA
Current consumption: 12VDC,≤18mA ;
24VAC,≤18mA
Detectiion distance: Diameter 8m when mounted @ 3.6m
Detecting angle:360°
Self-testing time: about 60S
Operating temperature: -10~+50 °C
Alarm indicator: red LED
Alarm output: Jumper selectable as N.C.or N.O., DC28V, 100mA

Anti tamper switch output: Dry contact DC 28V max, 100mA max
Occupancy Sensor output: solid state, jumper selectable NO or NC, DC28 V,100mA max.
Coverage range: 11 meters,360°
Sensor: dual element infrared sensor
Environment humidity: 95%RH (non condensing)
Anti RF interference: 10MHz ~ 1GHz 20V/m
Mounting: Wall mount
Installation height: 2.5 ~ 6m
Outline Size: 106(Dia.) * 36(Thickness) mm

Terminal Block & Jumper Settings
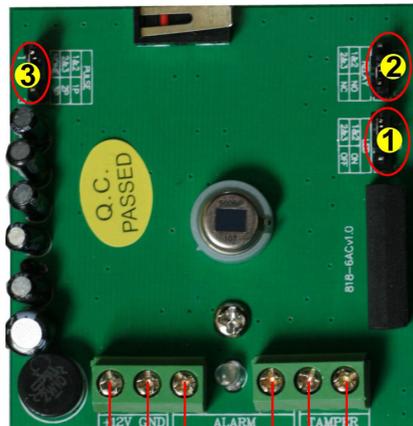
POWER GND — Occupied Pulse — Tamper Switch

Jumper Settings:

1 LED Jumper

1 2 3 — OFF
1 2 3 — ON

2 Relay Jumper

1 2 3 — NC
1 2 3 — NO

3 Pulse Jumper (Sensitivity Detection Seclection)

1 2 3 — 3 Pulses
1 2 3 — 2 Pulses(Low sensitivity detection mode)
1 2 3 — 1 Pulse(High sensitivity detection mode)
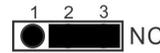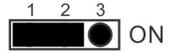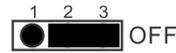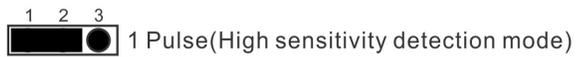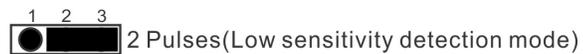
Detecting Area View
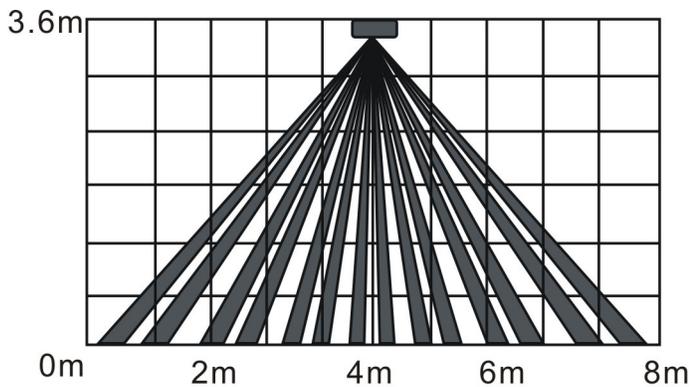
Side View
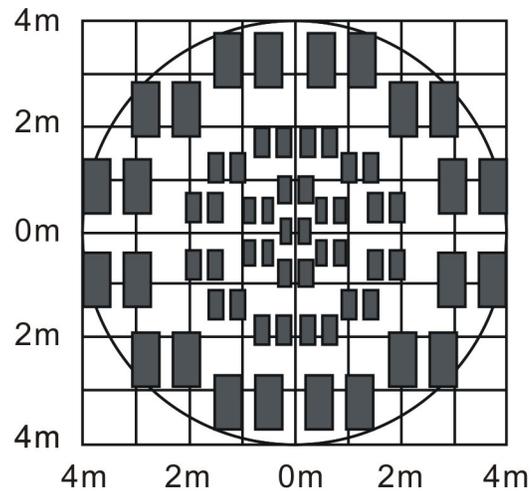
Platform

Installation Notes

- Avoid install at the out door, places with pets, air-conditioning nearby,derect sunshine,heat source and under rotating objects .
- Surface of installation should be firm with no vibration.
- Installing the detector in the place where intruder passes easily.

Installation Steps

1. Turn the detector counterclockwise, remove the front cover.
2. Screw the PCB off and remove the PCB.
3. Drill a wire hole in the rear housing.
4. Install the rear housing on the suitable position.
5. Connect the terminal block.
6. Put back the front cover.

Operating Instructions

Function Setting:

1. Relay Jumper: Choose N.C. or N.O. to set the state of alarm output.
according to the alarm panel or controller requirements, NC being the default.

Short 1&2: N.O.
Short 2&3: N.C.

2. Sensitivity Jumper: Three settings for low medium and high sensitivity. Note however that setting high sensitivity also increases the possibility of interference from RF. If you are getting false triggering, try setting the sensitivity down one level. The default setting is high.

Short 1&2: High sensitivity.
Short 2&3: Medium sensitivity.
Shut off: Low sensitivity.

3. LED Jumper: This jumper simply enables/diables the on board LED and does not affect the operation of the sensor itself. If the application calls for it you can conceal the detection indication by disabling the LED.

Short 1&2: LED will trigger when motion is detected.
Short 2&3: LED will be off always

Product Setup:

Turning on power and LED indicator will be enabled regardless of the LED jumper settting so as to enable sensing activity confirmation during commissioning and maintenance. This lasts about 60 seconds after which the LED will be enabled or disabled depending on the LED jumper position.

Notice

1. Please install and use the detector according to this manual, don't touch the surface of sensor to avoid affecting the sensitivity of the detector. Please shut off power and then clean the sensor by soft cloth with little alcohol if cleaning needed.

2. The product can reduce accident but may not perform as expected. The user is advised to take all necessary precautions for his/her safety and the protection of his/her property.

3. In order to ensure it can work normally, the power should be kept to supply and get on walking test periodically, once a week is better.