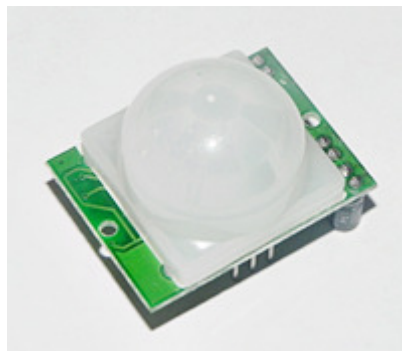
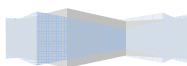


Modo de uso Modulo de Detección Pyroelectric Infrared Radial PIR Sensor Piroeléctrico Infrarrojo



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INTRODUCCION

El PIR501 es un sensor PIR de tamaño compacto este viene en un modulo con un circuito lógico y amplificador. El corazón de este modulo es el controlador PIR BISS001. Este modulo tiene consigo un lente de Fresnel que permite la detección del movimiento del cuerpo humano hasta una distancia de 7 metros. Muy utilizado en aplicaciones como el control automatico de iluminación de una habitación, en sistema de alarma, etc.

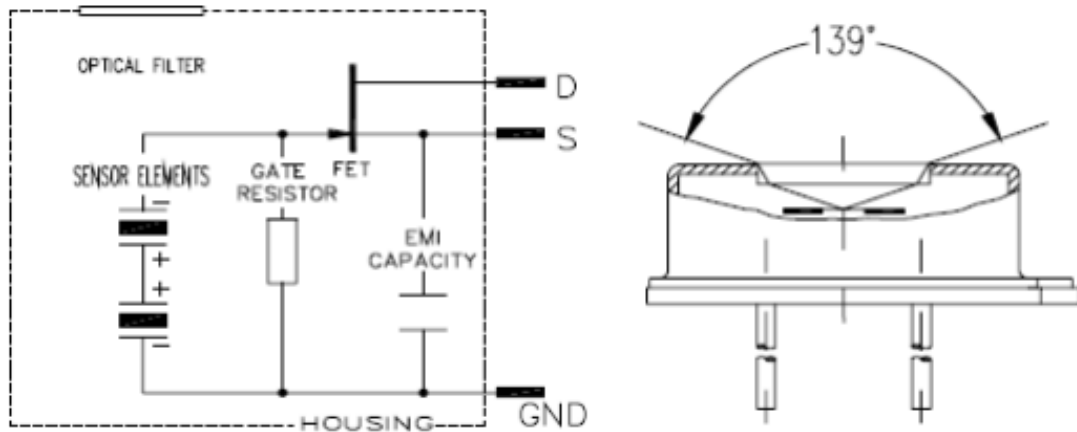
CARACTERISTICAS

- Pequeño tamaño 32mm x 24mm
- Salida: Voltaje lógico TTL 3.3V
- Basado en el controlador BISS0001 y el sensor PIR LHI778
- Two different trigger mode
- Tiempo de espera ajustable
- Default inhibit time
- Alta inmunidad a RFI y líneas de ruido

ESPECIFICACIONES

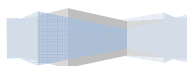
PIR sensor LHI778

Parameters	LHi 778				
	min	typical	max	units	condition
Element size		2x1		mm ²	2 elements
Responsivity	3 300	4000		V/W	100°C, 1 Hz
Match		1	10	%	
Noise		20	50	µVpp	25°C, 0,3...10Hz
Offset Voltage	0,2		1,55	V	R _s =47kΩ, 25°C
NEP		7,5x10 ⁻¹⁰	28x10 ⁻¹⁰	W√Hz	1Hz Bw, 100°C, 1 Hz
D*	5x10 ⁻⁷	19x10 ⁻⁷		cm √Hz/W	1Hz Bw, 100°C, 1 Hz
Output Impedance		5	10	kΩ	47kΩ Load Res.
Operating Voltage	2		15	V	R _s =47kΩ, 25°C
Operating Temperature	-40		85	°C	non permanent
Storage Temperature	-40		85	°C	non permanent



Especificaciones de funcionamiento

Spec	Description
Voltage Range	DC 4.5~20V
Stand by current	< 50uA
Output logic	High = 3.3V , Low = 0V
Trigger mode	L = none self re-trigger , H = self re-trigger
Delay time	5~200sec adjust
Clonhibit time	Default 2.5sec
PCB size	32mm X 24mm
Sensor Angle	< 100 degree
Operation temp	-15 ~ +70°C
Fresnel Lens size	23mm diameter



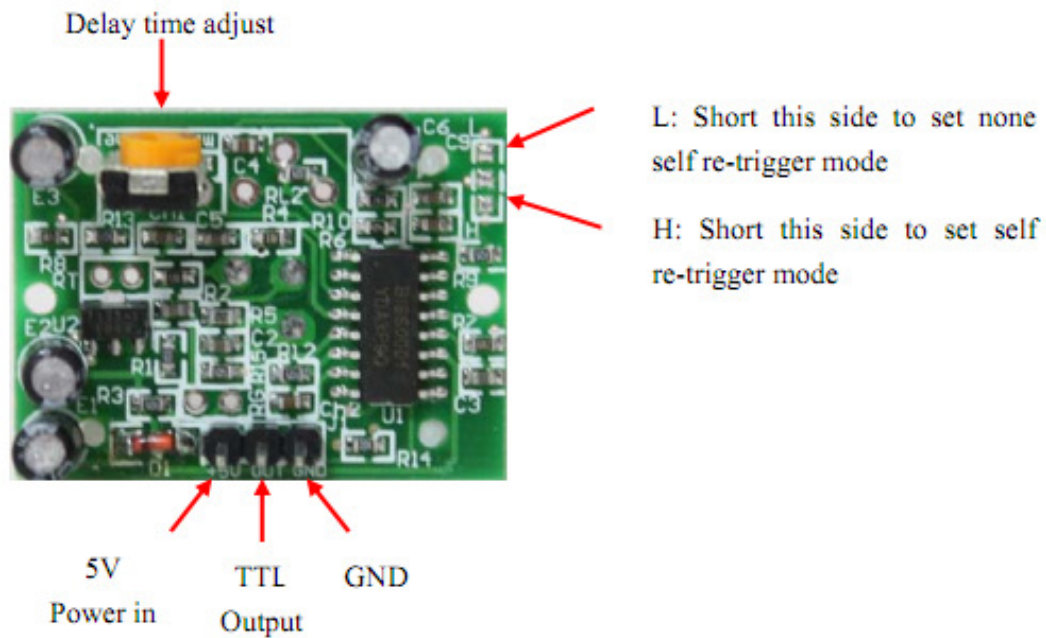
Operation Detail

There will be one minute initialize time for the module before enter the working mode. In this time the output will output periodically pulse.

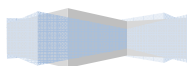
When in working mode, the module will output logic high if detect human body and will last logic high with a fixed delay time then go to logic low. There are two trigger mode:

- None self re-trigger mode: it will automatically change from logic high to logic low after a fixed delay.
- Self re-trigger mode: it will output logic high until the human body leave the detection area.

The inhibit time means there will be a default 2.5sec after the high to low delay time, it will not detect anything at this period of time.



Note : The module can add external temperature compensation resistor and CDS photoresistor for better detection effect.



Aplicaciones típicas

