

KC7786

PIR Sensor Module

KC7786 is a small size PIR sensor module with built-in amplifier and logic circuit. The heart of the module is high reliable PIR controller KC778B. The PIR sensor can be manufacturer specified. The fresnel lens is included for the detection of a human body movement at a distance of 5 meters. It is suitable for automatic illumination system, intruder alarm system.

Features

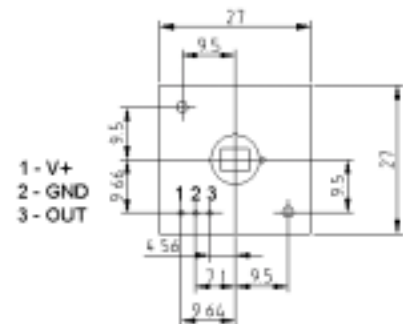
- Small size, 27mm square
- Single voltage operation, 12VDC
- Open collector output, active low
- 3 pin terminal of standard 0.1" pitch
- Built-in regulator and amplifier
- High sensitivity with special noise cancellation design
- High immunity to RFI and line noise
- Signal will not detect within 25 sec when power up
- Signal output is 0.5sec min
- Small operation power consumption

Standard Configuration

PIR Sensor : RE200B, dual element

Output duration : signal in +0.5 sec

Remark : the configuration can be specified by the customer for other sensor and output duration.



Specification

Item	Condition	Symbol	Min	Typ	Max	Unit
Operation voltage		Vdd	10	12	14	V
Operation Current at 12V	I _{out} =0	I _{op}		600		μA
Standby current	I _{out} =0	I _{std}		400		
Output Voltage	R _L =10K	V _{out}		0.2		V
Output Duration		T _{out}	0.5			Sec
Lens angle	Horizontal			100		Deg
	Vertical			60		
Lens diameter				24		mm
Module Dimension				27 x 27 x 18		mm

Timing Chart

