# **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**

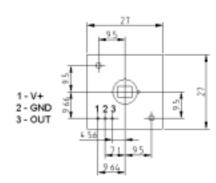
PIR Sensor : RE200B, dual element Output duration : signal in +0.5 sec

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

duration.

#### **Specification**

Item		Condition	Symbol	Min	Тур	Max	Unit	
Operation voltage			Vdd	10	12	14	V	
Operation Current at 12V		Iout=0	Iop		600		μΑ	
Standby current		Iout=0	Istd		400			
Output Voltage		$R_L=10K$	Vout		0.2		V	
Output Duration			Tout	0.5			Sec	
Lens angle	Horizontal				100		Deg	
	Vertical				60			
Lens diameter				24			mm	
Module Dimension				27 x 27 x 18			mm	



## **Timing Chart**

