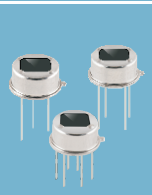
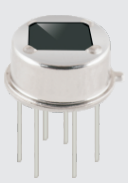
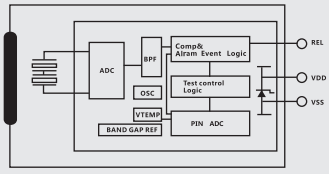
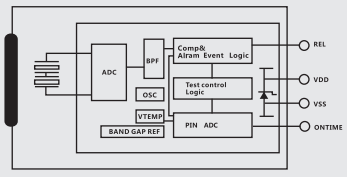
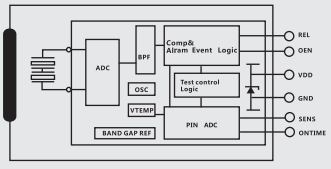
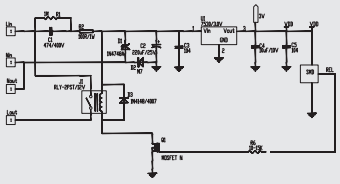
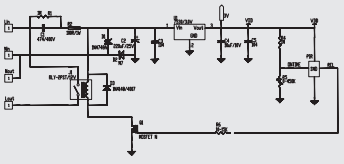
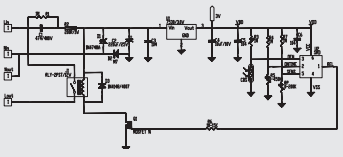
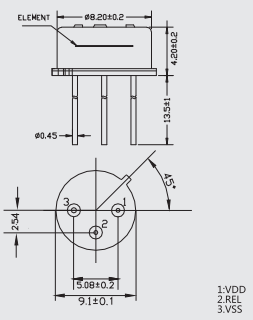
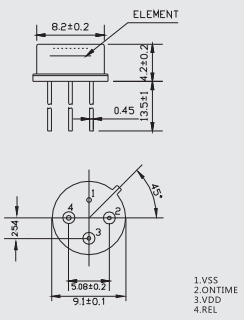
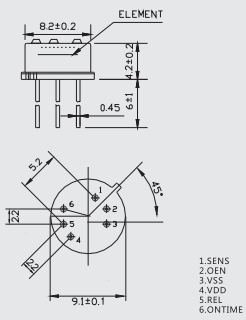
SENBA SENSING TEC.

熱釋電紅外傳感器(數字雙元插件封裝)
PYROELECTRIC INFRARED SENSOR

Type 型號	BS/BL/BM312	BS/BL/BM412	BS/BL/BM612
				
Supply Voltage 電源電壓	2.7~3.3V		
Pins 引脚數	3pins	4pins	6pins
Window size 窗口大小	3×4mm(BS系列)	3.8×5mm(BL系列)	4.2×5.2mm(BM系列)
Interior Diagram 内部方框圖			
Typical Application Circuit 典型應用電路			
Dimensions 外觀尺寸圖	 	 	 

SENBA SENSING TEC.

熱釋電紅外傳感器(數字雙元插件封裝)
PYROELECTRIC INFRARED SENSOR

Product Description 產品概述

The product is a type of intelligent PIR sensor which integrates digital control circuit and body sensitive element in one electromagnetic shielding. The signal inputs from sensitive element to digital circuit via a high impedance differential. The digital circuit converts the input signal to 15bit ADC digital value. When the PIR signal above the selected threshold, there will be a REL output. The parameter of time are set by resistance to control the time delay of application continuous work.
All signals are processed digitally.

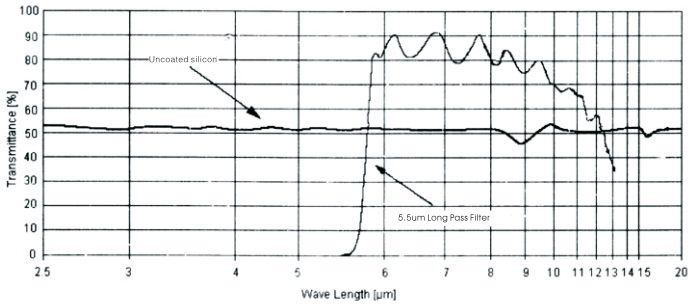
該系列產品是將數字智能控制電路與人體探測敏感元都集成在電磁屏蔽罩內的熱釋電紅外傳感器。人體探測敏感元將感應到的人體移動信號通過甚高阻抗差分輸入電路耦合到數字智能集成電路芯片上，數字智能集成電路將信號轉化成15位ADC數字信號，當PIR信號超過選定的數字閾值時就會有REL電平輸出。時間參數通過電阻設置，用以控制用電器持續工作的延時時間。所有的信號處理都在芯片上完成。

Technical parameter 性能參數

Maximum Rating 最大額定值

Parameter 參數	Symbol符號	Min最小值	Max最大值	Unit單位
Supply Voltage 電源電壓	V_{DD}	-0.3	3.3	V
Operating Temp 工作溫度	T_{OT}	-30	70	℃
Limit Current of Pin 任何引脚極限	I_{NTO}	-100	100	mA
Storage Temp 存儲溫度	T_{ST}	-40	80	℃

The transmission spectrum of the window material 窗口材料的透射光譜



Applications 用途

Toys、Digital photo frame、TV、Refrigerator、Air-condition、Alarms、PIR motion detection、Intruder detection、IOT sensor、Sense light、Computer monitor、Security system、Car security system、Corridor and stair lights, etc.

玩具、數碼相框、電視機、冰箱、空調、USB報警器、PIR運動檢測入侵檢測、占位檢測、物聯網傳感器、感應燈、網絡攝像機、局域網監控、私人警報器、汽車防盜系統、室內燈、走廊、樓梯燈等的自動亮起和熄燈等。

Features 特性

Digital Signal Processing
數字信號處理。

Differential inputs
二路差分甚高阻抗傳感器輸入。

Second order Butterworth low-pass filter，removing other higher frequency interference
特別內置紅外傳感器的二階巴特沃斯帶通濾波器，屏蔽其它頻率的輸入幹擾。

High supply rejection，High immunity to RFI
電源抑制比高，抗射頻幹擾。

Output time adjustable， Schmitt REL outputfor sensitivityLowsupply voltage，Low current consumption
具有定時時間、靈敏度施密特REL輸出。
低電壓、低功耗，啓動後瞬間工作。

PIR Application 產品應用

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Adafruit:
4667