

Type 型號	AS/AL/AM312	BS/BL/BM412	BS/BL/BM612
Supply Voltage 電源電壓	2.7~3.3V		
Pins 引腳數	3pins	4pins	6pins
Window size 窗口大小	3 × 4mm(A/BS系列)	3.8 × 5mm(A/BL系列)	4.2 × 5.2mm(A/BM系列)
Interior Diagram 內部方框圖			
Typical Application Circuit 典型應用電路			
Dimensions 外觀尺寸圖	<p>A/BS系列</p>	<p>A/BL系列</p>	<p>A/BM系列</p>
	<p>1.VDD 2.REL 3.VSS</p>	<p>1.VSS 2.ONTIME 3.VDD 4.REL</p>	<p>1.SENS 2.OEN 3.VSS 4.VDD 5.REL 6.ONTIME</p>

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。

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

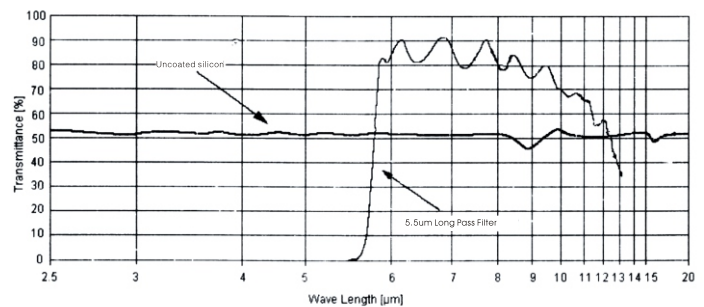
Digital Signal Processing
Differential inputs
Second order Butterworth low-pass filter, removing other higher frequency interference
High supply rejection, High immunity to RFI
Output time adjustable, Schmitt REL output for sensitivity
Low supply voltage, Low current consumption

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	°C
Limit Current of Pin 任何引腳極限	I_{NTO}	-100	100	mA
Storage Temp 存儲溫度	T_{ST}	-40	80	°C

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



PIR Application 產品應用

