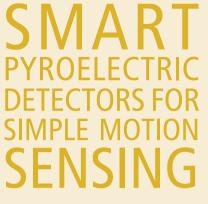
<mark>SUNSTAR传感与控制 http://www.sen</mark>sor-ic.com/ TEL:0755-83376549 FAX:0755-83376182E-MAIL: szss200163.com

PYROELECTRIC DETECTORS FOR MOTION SENSING



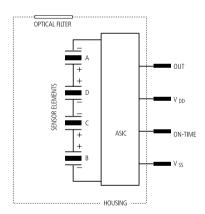
PYQ 1098 – Four Element "Smart DigiPyro®"

Applications

- Simple motion switches
- Auto light switch
- Wall switch

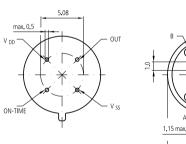
Features and Benefits

- TO-5 metal housing
- All electronics included

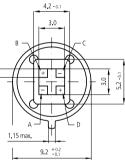


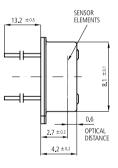
Product Description

The Smart DigiPyro[®] series offers a complete motion detector solution, with all electronic circuitry built into the detector housing. Only a power supply and power-switching components need to be added to make the entire motion switch, a timer is included. The series has versions which can include ambient light level and sensitivity adjustments.



All dimensions in mm





PYQ 1098 – Four Element "Smart DigiPyro®'

Parameter	Symbol	PYQ 1098	Unit	Remark
Responsivity, min.	R _{min}	3.3	kV/W	f = 1 Hz
Responsivity, typ.	R	4.0	kV/W	f = 1 Hz
Match, max.	M _{max}	10	%	
Noise, max.		80	μV _{pp}	0.4 10 Hz / 20° C
Field of view, horizontal	FoV	115°		Unobstructed
Field of view, vertical	FoV	70°		Unobstructed
Operating voltage	V _{DD}	2.73.3	V	
Supply current	I _{DDmax}	150	μA	V _{DD} =3.3V
Digital Data				
ADC sensitivity		67	μV/count	
Sensitivity threshold		120	μVp	
On-time		2 4096	S	
OEN (ambient light control)		-	V	
Output driving current		1	μA	
Filter, Signal Processing				
Digital filter, cut on		0.44	Hz	
Digital filter, cut off		7	Hz	