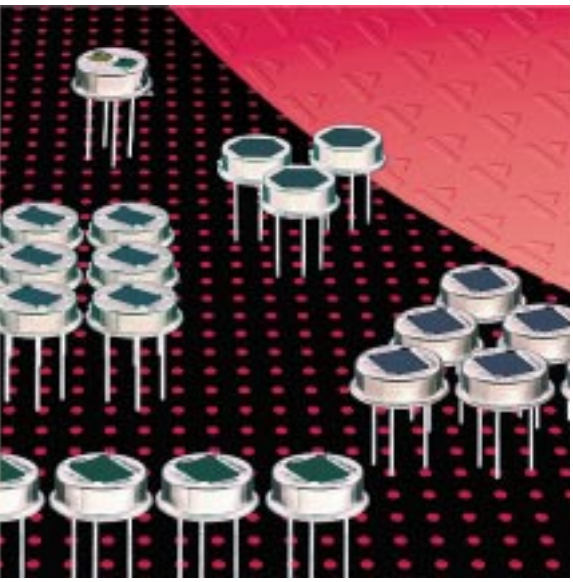
DATASHEET

Dual Element Detector LHi 968



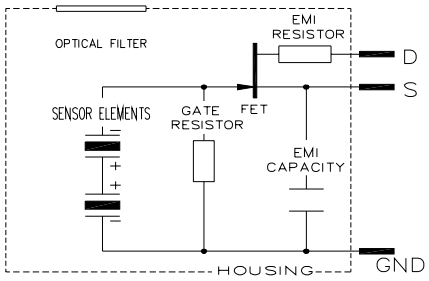
High End Dual Element Detector

Special RFi Protection

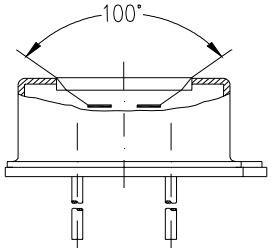
Designed for PIR Alarms

The **LHi 968** pyroelectric infrared-detector series is specially designed for Intrusion Alarm applications . It includes a dual element pyroelectric ceramic with FET in source follower connection and RF protection by a resistor and additional capacitor.

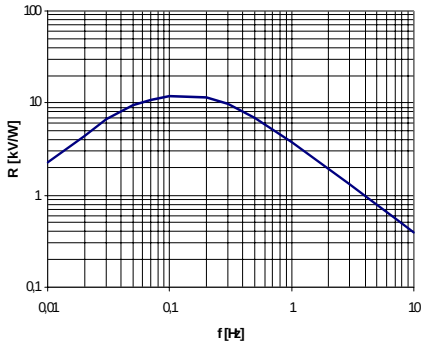
This detector is available in **TO-5** housing with an infrared filter which protects the elements from strong white light disturbance. It offers high responsivity with excellent common mode performance (match) and low noise.



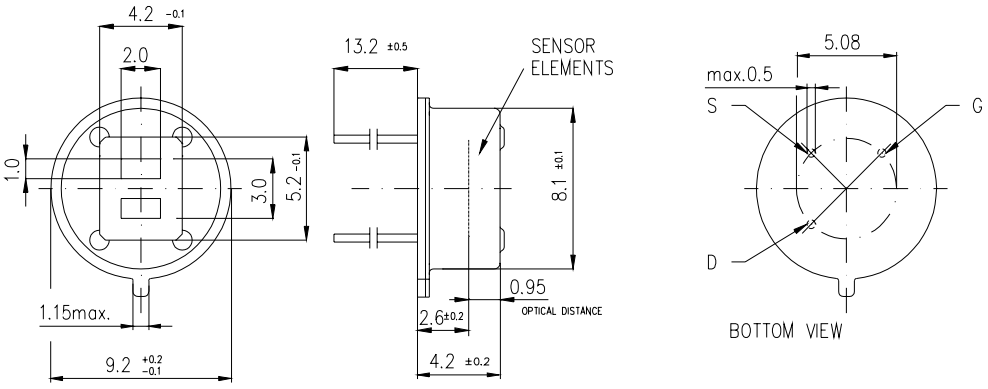
Parameters	LHi 968				
	min	typical	max	units	condition
Element size		2 x 1		mm^2	(2 elements)
Responsivity	3 300	3800		V/W	100°C, 1 Hz
Match		1	10	%	
Noise		20	50	µVpp	25°C, 0,3...10Hz
Offset Voltage	0,2		1,5	V	25°C, R_S =47kΩ
NEP		$7{,}5x10^{-10}$	$28x10^{-10}$	W √Hz	1Hz Bw, 100°C, 1 Hz
D*	$5x10^{7}$	$19x10^{7}$		cm √Hz/W	1Hz Bw, 100°C1 Hz
Output Impedance		5	10	kΩ	R_S =47kΩ, 25°C
Operating Voltage	2		15	V	R_S =47kΩ, 25°C
Field of View, horizontal		100°			unobstructed
vertical		100°			unobstructed
Operating Temperature	-40		85	°C	non permanent
Storage Temperature	-40		85	°C	non permanent



Field of View



Frequency Response



Dimensions in mm

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