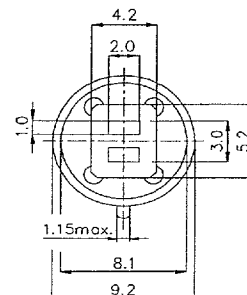


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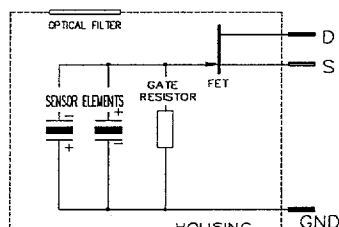
LHi 954, LHi 958

- Dual Element Detector
- Excellent Common-Mode Rejection
- Designed for Motion Detection

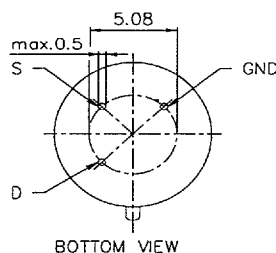
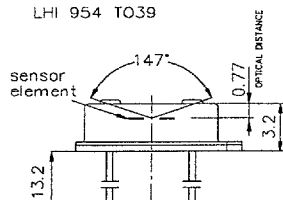
Two sensing elements of 2mm x 1mm are connected to each other in parallel opposition with 1mm optical spacing, and matched with a special low noise FET in source follower configuration. The dual element series is available in a hermetically sealed metal housing with the standard optical filter 6-14µm: LHi 954 = TO-39 housing
LHi 958 = TO-5 housing



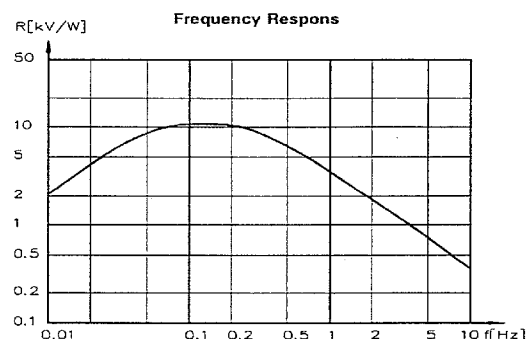
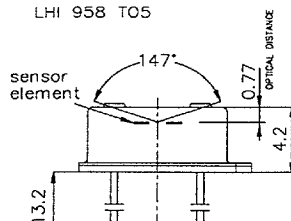
Parameter	min	typ	max	units	condition
Element Size		2 x 1		mm ²	
Spacing		1		mm	
Responsivity R	2,7	3,6		kV/W	1 Hz
Noise		15	40	µVpp	25°C, 0,3-10Hz
Offset Voltage	0,2		1,5	V	Rs = 47kΩ, 25°C
NEP		8,6	28	10 ⁻¹⁰ W/√Hz	1Hz, 1 Hz BW
D*	5	17		10 ⁷ cm √Hz/W	1Hz, 1 Hz BW
Output Impedance		5	10	kΩ	Rs = 47 kΩ
Operating Voltage	2		15	V	
Drain - Source Voltage	0,5			V	
Unobstructed FOW					
Horizontal		110°			
Vertical		110°			
Operating Temperature	-40		70	°C	
Storage Temperature	-40		80	°C	



LHi 954 TO39



LHi 958 TO5



EG&G HEIMANN
Optoelectronics

EG&G Heimann Optoelectronics GmbH, Germany, Wehel Köppel 3, 65199 Wiesbaden, Tel.: ++49(0)611-492-0, Fax ++49(0)611-492-228

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