



PRODUCTS Shin-film type infrared thermopile sensors

DESCRIPTIONS Features
Thin film based thermopile sensors are of high sensitivity and efficiency. Thermocouples as elements are piled up into the thermopiles and connected in series by means of semi-conductor IC technology - 100 pieces of the thermocouples are being integrated on light-receiving area of 2mm X 2mm. That's why the sensors have high reliability, high output and no I/f noise.

Applications:
Intrusion alarm and detection of heat sources, temperature measurement and gas analyzers, light strength measurements, flame and gas detectors and CO₂ gas detectors, etc.

MIR-101 LINE – GENERAL USE

Model No.	Wave Band (μm)	Transmission (%)	Sensitivity=RV (V/W)	Applications
			Range	
MIR-101	6.4 to 14.0	75	9.4 to 14.0	intrusion alarm and detection of heat source
MIR-101B	0.13 to 15.5	90	19.1 to 23.6	temperature measurement and gas analyzers
MIR-101C	0.12 to 12.0	90	16.8 to 21.3	temperature measurement and gas analyzers
MIR-101Q	0.28 to 4.8	90	2.8 to 5.5	light strength measurements
MIR-101S	1.0 to 18.0	55	11.0 to 15.0	intrusion alarm and detection of heat source
MIR-101HCA	3.4 to 3.5	75	0.27 to 0.94	flame and gas detectors
MIR-101HCB	3.2 to 3.4	80	0.27 to 0.94	flame and gas detectors
MIR-101CO2	4.2 to 4.4	70	0.27 to 0.94	CO2 gas detectors
MIR-101HCO	3.5 to 4.9	80	1.88 to 4.56	flame detectors

MIR-1001 LINE – HIGH EFFICIENCY

Model No.	Wave Band (μm)	Transmission (%)	Sensitivity=RV (V/W)	Applications
			Range	
MIR-1001	6.4 to 14.0	75	9.4 to 14.0	intrusion alarm and detection of heat source
MIR-1001Q	0.28 to 4.8	90	2.8 to 5.5	light strength measurements
MIR-1001S	1.0 to 18.0	55	11.0 to 15.0	high temperature measurements
MIR-1001HCA	3.4 to 3.5	75	0.27 to 0.94	flame and gas detectors
MIR-1001HCB	3.2 to 3.4	80	0.27 to 0.94	flame and gas detectors
MIR-1001CO2	4.2 to 4.4	70	0.27 to 0.94	CO2 gas detectors