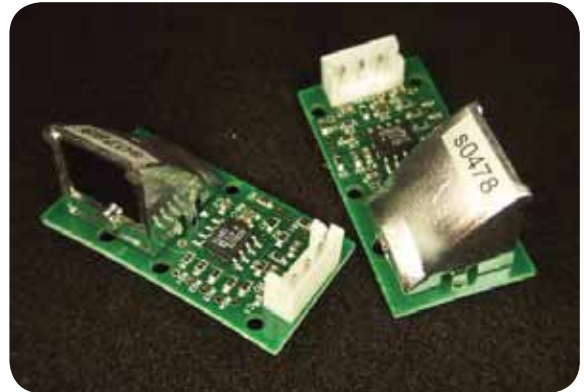




T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

ZTP-115M

Thermopile IR Module



The ZTP-115M is a single IR module used for non-contact surface temperature measuring. It consists of a thermopile, IR sensor, signal conditioning and voltage output.

Applications

- Occupancy detection
- HVAC
- Appliance
- Microwave oven

Features

- Non-contact measurement
- Wider surface area measurement
- Small-size sensor package
- Included ambient temperature - (thermistor) sensor for compensation
- High sensitivity
- Fast response time
- Low cost
- Analog output

Amphenol
Advanced Sensors

Specifications

Supply Voltage

Single Supply (+5V)

Supply Current

Typical 2.7 mA

Response Time

0.3 ~ 0.6 second

Range of Measuring Temperature

-40°C ~ 145°C

Operating Temperature

-20°C ~ 100°C

Storage Temperature

-20°C ~ 120°C

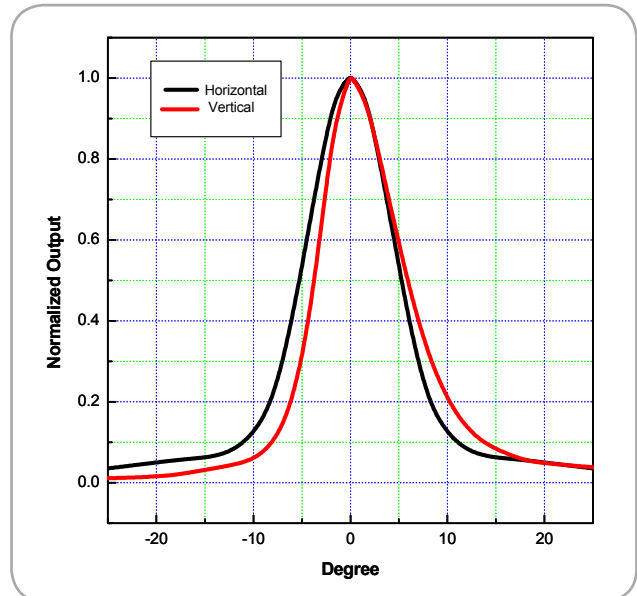
Thermopile Sensor

ZTP-115

Field of View

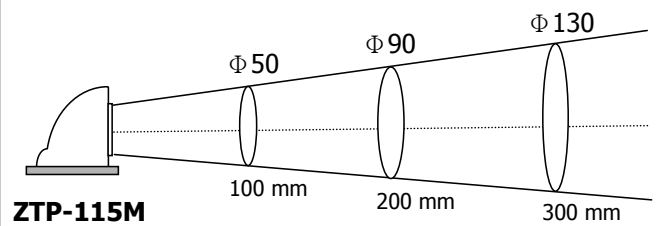
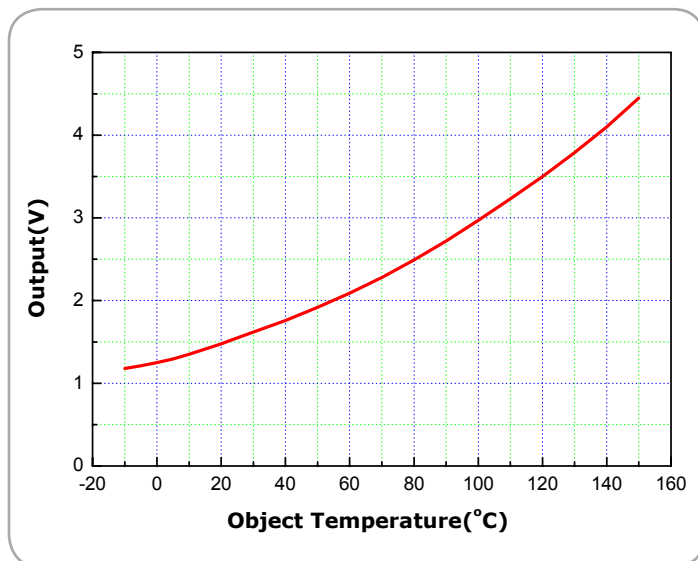
- Horizontal Normalized Output (above 50%) : $\pm 5.5^\circ$
- Vertical Normalized Output (above 50%) : $+6^\circ / -3.5^\circ$

*Condition : Distance of IR Point Source to Reflector : 170 mm

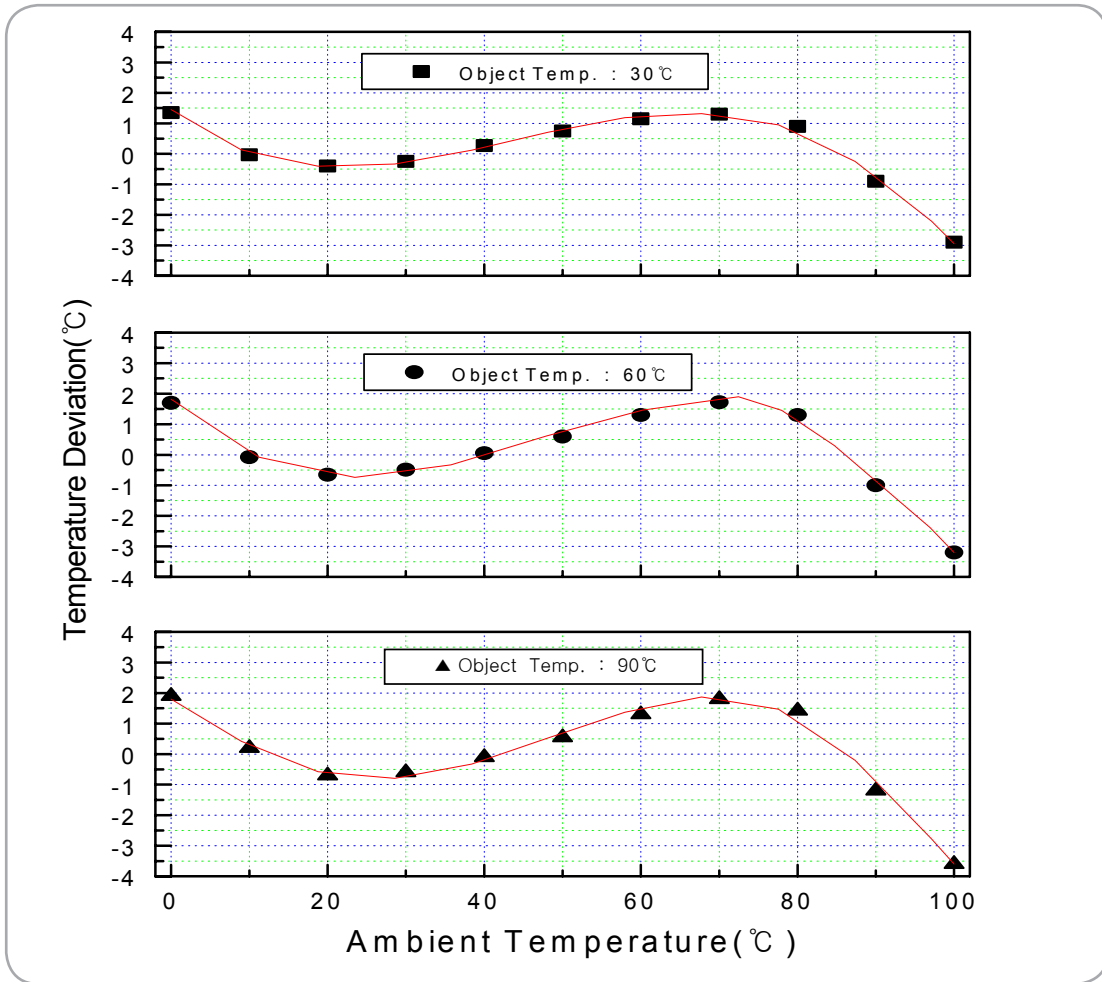


- Spot Size of Normalized Output (above 10%)

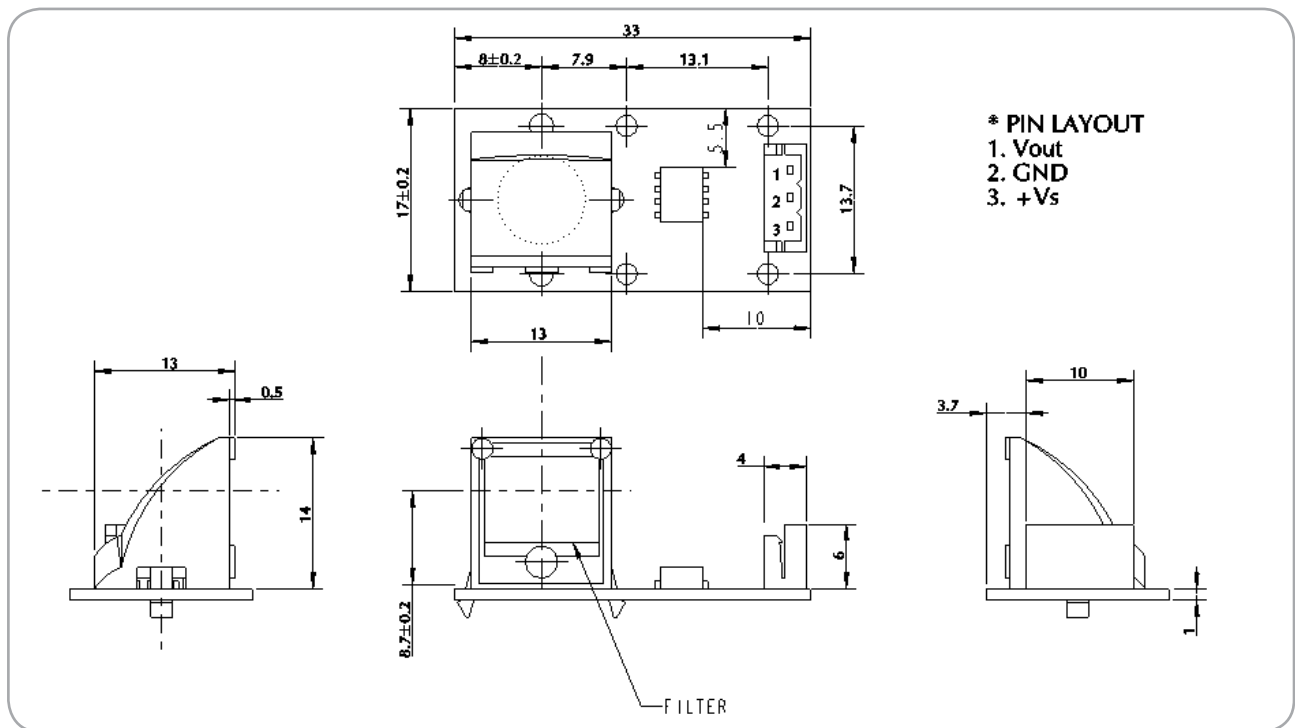
Sensitivity



Temperature Accuracy (Typical)



Outline of Sensor Packaging and Pin Arrangement



Module Circuit

