

Infrared Temperature Sensors

Selection guide P.1721—P.1730 ▶



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<p>Non-contact infrared type</p> 	<p>Multi-purpose type</p>	<p>TS-D</p> <p>P.1725 </p>
	<p>Digital standard type</p>	<p>TS-P</p> <p>P.1729 </p>

What is an infrared temperature sensor

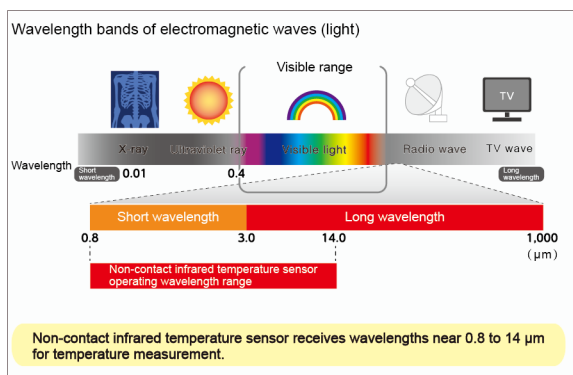
Infrared temperature sensors are sensors that utilize the infrared principle to measure product temperature without contact.

Infrared temperature sensor application

Infrared temperature sensors are mainly used for: non-contact temperature measurement, infrared radiation detection, temperature measurement of moving objects, continuous temperature control, etc.

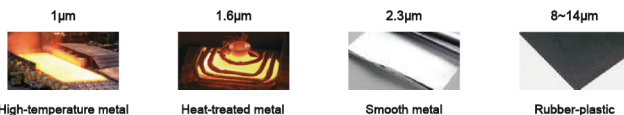
About infrared light and wavelength

Infrared light belongs to a kind of electromagnetic wave, with wavelengths ranging from 0.8 to 1000 μm ; Different wavelengths have very different properties, and infrared temperature sensors utilize the differences in wavelengths for detection.



Material of the object vs. wavelength

All objects emit infrared rays of different wavelengths depending on their temperature. A comparison table of the measured wavelengths for various materials is shown below:



A suitable temperature sensor can be selected according to the wavelength of the object to be measured.

Product Category

Multi-purpose type



> Multi-purpose type
TS-D series

- Superb, standard type are available to meet different needs
- Up to 5ms response time for really fast temperature measurement

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Digital standard type



> Digital standard type
TS-P series

- Measured temperature range: 0~500°C
- 6-digit LCD digital display, clearly visible

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Select the model according to the operating wavelength

Operating wavelength		8~14μm	2.3μm	1.6μm	1μm	
Measurement temperature	Celsius(°C)	0~500°C	100~600°C	300~1300°C	600~1600°C	
	Fahrenheit(°F)	32~932°F	212~1112°F	572~2372°F	1112~2912°F	
Model		TS-D500*	TS-P500A	TS-D600*	TS-D1300*	TS-D1600*
Appearance		 P.1726	 P.1730	 P.1726	 P.1726	 P.1726

Fiber Optic Sensors

Photoelectric Sensors

Color Sensors

Laser Sensors

Inductive Proximity Sensors

Precision Contact Sensors

Area/Safety Light Curtain

Laser Scanners

Digital Contact Sensors

Laser Displacement Sensors

Confocal Displacement Sensors

Barcode Scanners

RFID

Infrared Temperature Sensors

Digital Pressure Sensors

Flow Test Sensors

Gate Magnetic Sensors

Ultrasonic Displacement Sensors

Magnetic Scale

Static Eliminators