

OPTEX'S Unique

Non-Contact Temperature Sensor

Checking, counting, and detecting the temperature change of objects from the pre-set value shown on the LCD display.



OPTEX Product Information

THERMO-HUNTER BUILT-IN2

BA-30TC BA-06TC photo MOS relay output type

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- Measuring range : 0~500°C (Detecting temperature range)
- Coaxial laser marker
- Built-in digital display
- photo MOS relay output

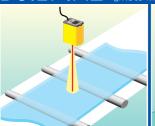
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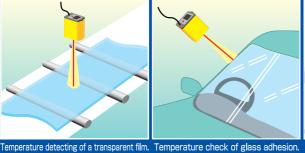
OK

Application example
Presence detection of the lid of ice cream

THERMO-HUNTER BUILT-IN2

BA-30TC/BA-06TC (photo MOS relay output type)





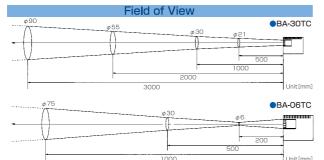






Specifications		
Model	BA-30TC	BA-06TC
Temperature Range	0~500°C(display-20~520°C)	
Area Size	φ30mm/1000mm	φ6mm/200mm
Optics	Silicon lens	
Sensing element/wavelength	Thermopile/8~14µm	
Response Time	500ms/90%	
Accuracy	\pm 1% of reading value or \pm 2°C \pm 1 digit, whichever is greater(ε \doteqdot 1.0)	
Repeatability	±1℃ of reading value	
Display Resolution	1℃	
Relay output	Photo Mos relay output, 350mA·DC100V Max	
Output renewal interval	50msec	
Sighting Method	Coaxial laser marker	
Emissivity ratio (ε) Adjustment	0.10~1.20	
Delay Function	1~200(0.5~10sec) Variable	
Power Supply	DC12~24V±10%/MAX150mA	
Ambient temperature	0~50℃	
Environmental Humidity	35~85%RH(without dew condensation)	
Storage Temperature	-10~60℃	
Vibration Resistance	3G(20~50Hz, according to JIS CO911)	
Water Resistance	IP65	
Materials	Ring case : glass-containing PBT, Rear cover : pc	
Weight	360g	

Accessories : Attachment Fitting×1. M4 screw×2 *Design and specifications are subject to change for product improvement without prior notice.



- *The laser marker is aimed at the center of the measuring area.

 *The optical resolution values stated in "Field of View" are at 90% energy.

 *The size of measuring object should be sufficiently larger than the Field of View" (spot size) shown in the above illustration.

Option

(Option)Black Tape



HB-250

- ●Dimensions 60mm×2000mm ●Withstand heat
- up to 250℃

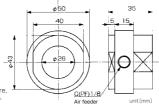
[Hint for accurate measurement]
The black tape (HB-Z50) is designed for more accurate measurement. especially if the target object has a shiny surface. Apply HB-250 on the surface of the target and measure the area covered by HB-250 with emissivity setting at 0.95.

Adaptable to dusty environments Air purge collar

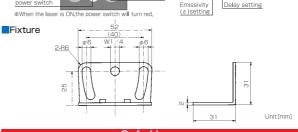


BA-AP1

Air purge collar is used keep dusts moisture, airborne particles and vapors away from the lens.



Dimensions ן טטטטטטטטטטטטטטטטטטטטן וו Dimensions Caution Label Fitting screw Cover 111, 40 2m cable length _____ w holes M4×8mm depth Functions urement mode Display part 500 Up buttor Emissivity (ε)TEACH setting ENTER/LASER Down button



Safe Usage

CAUTION

Do not look into the laser or direct it toward the eyes. Even the reflection is harmful. Laser may cause eye injury or damage your health.

This product is not a clinical thermometer; therefore, it cannot be used for medical purposes.

Environmental Warnings

- KEEP THE THERMOMETER AWAY FROM DIRECT SUNLIGHT, DUST, HIGH TEMPERATURES AND HIGH HUMIDITY WHILE IN USE AND STORAGE.
- IN USE AND STORAGE.
 This may cause irreparable damage or incorrect measurement.

 OD NOT EXPOSE THE THERMOMETER TO SUDDEN TEMPERATURE CHANGES.

 Sudden temperature change of the environment may cause incorrect measurement. In such cases, wait until the
- Sudden temperature change of the environment may cause incorrect measurement. In such cases, wait until the thermometer reaches steady temperature before taking measurement.

 (AKEEP THE THERMOMETER AWAY FROM STRONG ELECTROMAGNETIC SOURCES, CORROSIVE OR EXPLOSIVE GASES. This may cause irregarable damage or incorrect measurement.

Usage Warnings

- OAVOID MEASURING SHINY SURFACES.
 Shiny surfaces reflect radiation from surrounding objects. Although the emissivity ratio can be adjusted to compensate for this problem, accurate measurement is difficult.

 OUSE THE CORRECT VOLTAGE.
 Analysing videopes other than 12-24 VDC may cause short-circuit, damages, fire or injury. In such cases, turn the power off immediately.

 DO NOT LET THE THERMOMETER TOUGH THE OBJECTS THAT IS SERNO MEASURED.
 Irreparable damage or incorrect measurement.

 ODO NOT TOUGH THE LENS.
 Do not tough the lens with anything hard or things with sharp points, which may damage the lens. A damaged lens causes incorrect measurement.
- ODD NOT TOUCH THE LENS.
 Do not touch the lens with anything hard or things with sharp points, which r

 ◆ KEEP THE THERMOMETER. AWAY FROM CHARGED OBJECTS
 This may cause irreparable damage or incorrect measurement.

ucts mentioned in this catalogue are equipped with Class 2 laser. se of re-export to foreign countries, please confirm the relevant regulation for laser products in the destination country.

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