

**Non-contact thermometer**

High performance in harsh environment  
Compact and rugged sensor head

**THERMO-HUNTER®**

# CS series

-40 to 500°C

# CS-HT series

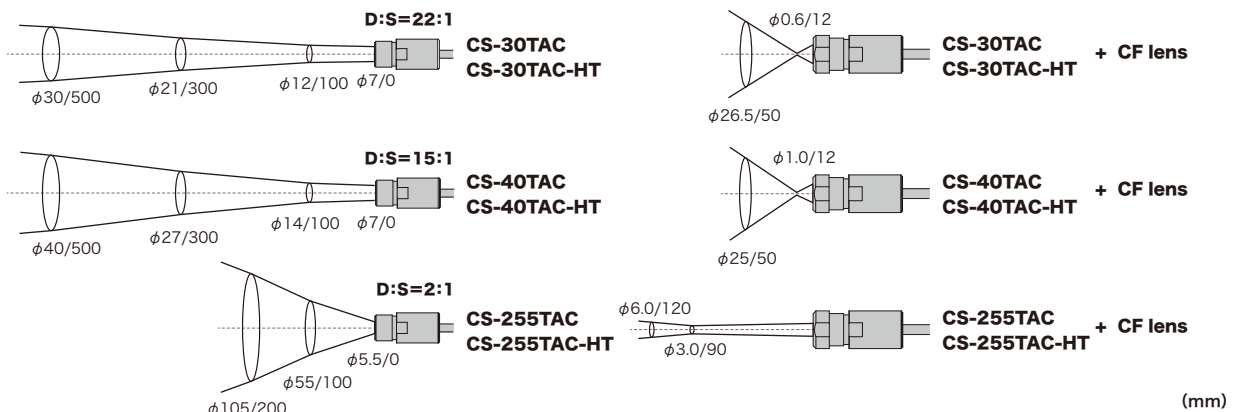
0 to 1000°C



## Features

- Smallest sensor head worldwide, installable in a limited space
- Usable up to 180°C ambient temperature without cooling
- Highest waterproof rating IP69K
- Unique water repellent coating, easy maintenance
- 6 kinds of Optical specification
- Large digital display with 7-segment LED
- Easy temperature adjustment - 2 points teaching function

## Optical Specifications



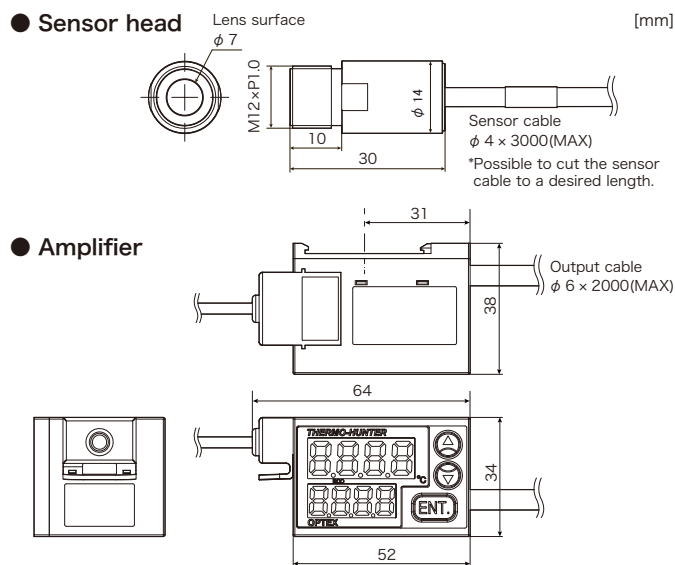
※ The optical resolution value stated above are at minimum 90% energy.  
 ※ The size of measuring object should be sufficiently larger than the spot size.  
 ※ CF lens requires the target object should be approx. 1.5 times larger than the spot size.

# Specifications

Model	CS-30TAC-HT	CS-40TAC-HT	CS-255TAC-HT	CS-30TAC	CS-40TAC	CS-255TAC
Temperature range	0 to 1000°C			-40 to 500°C		
Optical resolution (D:S)	φ30/500mm (22:1)	φ40/500mm (15:1)	φ255/500mm (2:1)	φ30/500mm (22:1)	φ40/500mm (15:1)	φ255/500mm (2:1)
Sensing element/Spectral response	Thermopile / 8 to 14μm					
System accuracy	±1% of reading or ±2°C, whichever is greater			-40 to 0°C:±3°C 1 to 500°C:±1% of reading or ±2°C, whichever is greater		
Repeatability	±0.5% of reading or ±0.5°C, whichever is greater					
Emissivity adjustment (ε)	0.1 to 1.2					
Temperature resolution	1°C					
Response time	150msec/90%					100msec/90%
Outputs	Analog output / 4-20mA (Output resolution 0.5°C) accuracy:±0.5% or ±1% Updating time:10msec Allowable load: 250Ω Impedance:100Ω Contact output / Photo MOS FET x2 (c contact x2), 500mA/60VDC or less					
Interface	Digital output					
Inputs	Synchronous trigger/Wave trigger/Bank switching function (4BANK)					
Display	7 segments LED					
Power supply	12 to 24VDC ±10%					
Current consumption	500mA (Normal) / Less than 150mA (ECO mode)					
Ambient temperature	0 to 180°C (Sensing head)			0 to 100°C (Sensing head)		
Relative humidity	35 to 85%Rh (non-condensing)					
Protection class	IP69K (Sensing head) / IP40 (Amp.)					
Vibration resistance	10 to 55Hz, amplitude 1.5mm, 2hours each in any axis					
Materials	Stainless (Sensing head) /ABS (Amp.)					
Cable length	3m					
Installation	Pannel mounted / DIN rail attached					
Dimmension	M12(φ14)×30mm(Sensing head) / 34×52×38mm(Amp.)					
Weight	120g (Sensing head), 150g (amp.)					

\*Specifications subject to change without notice.

## Dimensions



## Optional Accessories



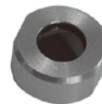
Air Purge Collar



Laser Marker



Sensor Mounting Bracket



CF lens



Protection Jacket for amplifier

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