

Model	Low-medium-temperature models (standard)		High-temperature models (heat-resistant head)	
	CS-30TAC	CS-40TAC	CS-30TAC-HT	CS-40TAC-HT
Measurement range	-40 to 500°C (-40 to 932°F)		0 to 1000°C (32 to 1832°F)	
Field of view	ø30/500 mm (22:1)	ø40/500 mm (15:1)	ø30/500 mm (22:1)	ø40/500 mm (15:1)
Optics	Silicone lens			
Sensing element/spectral response	Thermopile/8 to 14 µm			
Response time	150 ms/90% response		150 ms/90% response	
Accuracy*1	-40 to 0°C (-40 to 32°F): ±3°C (5.4°F), 1 to 200°C (33.8 to 392°F): ±2°C (3.6°F), +201 to +500°C(393.8 to 932°F): ±1% of reading value		0 to 200°C (32 to 392°F): ±2°C (3.6°F), +201 to 1000°C (393.8 to 1832°F): ±1% of reading value	
Repeatability	Up to 200°C (392°F): ±1.0°C (1.8°F), 201°C (393.8°F) or more: ±0.5% of reading value			
Emissivity adjustment	0.1 to 1.2			
Display resolution	1°C increments			
Analog output	Output	4 to 20 mA		
	Resolution	0.5°C increments		
	Accuracy	±0.5% or ±1.0°C (1.8°F)		
	Update time	10 ms		
	Allowable load	250 Ω		
	Impedance	47 Ω		
Control output	Photo MOS FET × 2 (Transfer contact × 2)			
Capacitive load	300 mA/30 VDC or less			
Functions	Teaching function: 2 points, Response time selection (DELAY) function: 1 (0.15 sec.) to 200 (approx. 10 sec.), Output scaling function			
External input	Bank function: 4 banks, Synchronous input trigger function, External trigger function, Wave trigger function			
Degree of protection	Sensor head: IP69K, Amplifier: IP40			
Vibration resistance	10 to 55 Hz; amplitude 1.5 mm; 2 hours in each of the X, Y, and Z directions			
Supply voltage	12 to 24 VDC ±10%			
Current consumption	120 mA (at max. load) / 80 mA (in Eco mode)			
Ambient temperature	Sensor head: 0 to 100°C (32 to 212°F), Amplifier: 0 to 65°C (32 to 149°F)		Sensor head: 0 to 180°C (32 to 356°F), Amplifier: 0 to 65°C (32 to 149°F)	
Ambient humidity	35 to 85% RH (no condensation)			
Storage temperature	0 to 70°C (32 to 158°F)			
Dimensions	Sensor head: M12 (ø14) × 34 mm, Amplifier: 35 × 52 × 38.5 mm			
Weight	Sensor head: Approx. 100 g (including 3 m cable), Amplifier: Approx. 200 g (including 2 m cable)			
Material	Sensor head: SUS, Amplifier: ABS, Sensor cable: PVC (low-medium-temperature models) / Silicone rubber (high-temperature models)			

*1 The measurement accuracy in the specification is (strictly) limited to the calibration conditions of our factory.
• Note that specifications are subject to change without prior notice for product improvement purposes.