

More Precision

thermoMETER // Non-contact IR temperature sensors



thermoMETER CT



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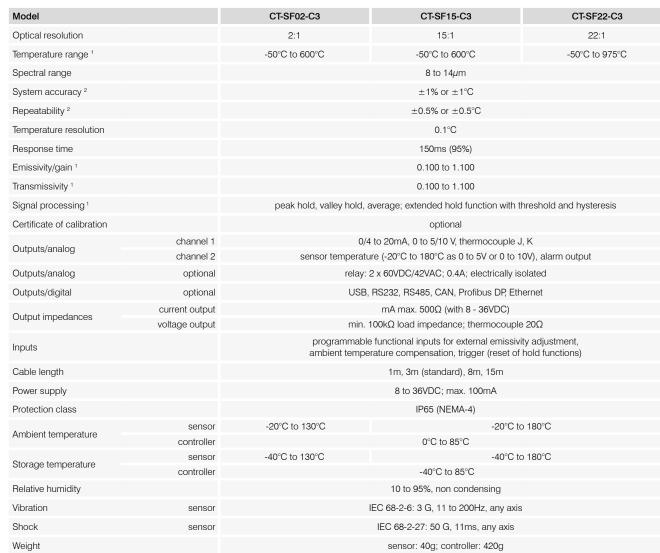
Non-contact IR temperature sensor for common applications

- Measuring range from -50°C to 975°C
- One of the smallest 22:1 infrared sensors worldwide
- Up to 85°C ambient temperature without cooling
- Separate controller with programming keys and backlit display
- Selectable and scalable analog output, optional digital interfaces
- Exchangeable sensors
- Best price sensor

Optical specifications thermoMETER CT

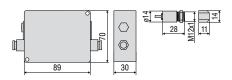
= smallest spot size (mm)

Standard	Focus															
SF02	2:1	5	50	100	150	200	250	300	350	400						
	distance (mm)	0	100	200	300	400	500	600	700	800						
SF15	15:1	6.5	8.3	10	15	20	25	30	35	40	45	50	55	60	65	70
	distance (mm)	0	75	150	225	300	375	450	525	600	675	750	825	900	975	1050
SF22	22:1	6.5	8.3	10	15	20	25	30	35	40	45	50				
	distance (mm)	0	110	220	330	440	550	660	770	880	990	1100				
Close Focus (with optionally available CF lens)																
CF02	2:1	7	5	3.1	2.5	5.4	7.5	9.6	13.7	18						
	distance (mm)	0	10	20	23	30	35	40	50	60						
CF15	15:1	7	4	0.8	4.7	8.6	12.5	16.4	20.3	24.2						
CF22	22:1	7	4	0.6	4	8	12	16	20	24						
	distance (mm)	0	5	10	15	20	25	30	35	40						



1 adjustable via programming keys or software

 2 at ambient temperature 23 ±5 °C; whichever is greater



Product identification

CT-	SF02-	C3						
		Cable length [1m / 3m (standard) / 8m / 15m]						
	Focus [SF02 / SF15 / SF22]							
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Accessories page 40-43

- Ancillary CF lens
- Protective window
- Mounting bracket / Mounting bolt
- Air purge collar

- Right angle mirror
- Rail mount adapter for controller
- Massive housing
- Protective tube

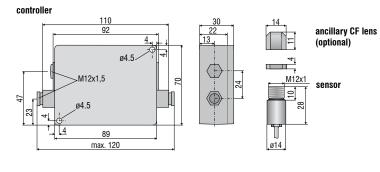
- Laser sighting aid
- Digital-interface kits
- Accessories kit for use in Ex areas
- Certificate of calibration

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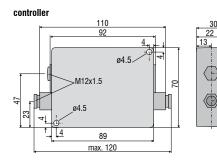
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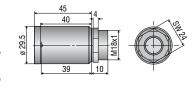
CT / CTfast / CTM1/M2/M3



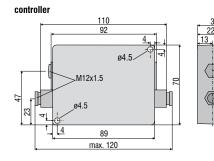
CThot / CTP-3 / CTP-7

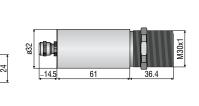






CTM3-XL

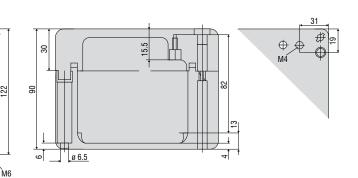




sensor

CTex

95 106 65.5 113 122



Mechanic	al accessories		Optical a	ccessories		
Art. No.	Model		Art. No.	Model		
2970203	TM-FB-CT	Mounting bracket, fixed	2970201	TM-CF-CT	Ancillary CF lens (only for SF models)	
		Mounting bracket, adjustable in one axis,	2970202	TM-PW-CT	Protective window (only for SF models)	
2970325	TM-FB2-CT	for simultaneous assembly of CT sensor and laser sighting aid	2970297	TM-CFAG-CT	Ancillary lens with external thread	
2970336	TM-FBMH-CT	Mounting bracket, adjustable in one axis,	2970330	TM-CFH-CT	Ancillary lens for M1/M2/M3/M5 sensors	
2970204	TM-AB-CT	for massive housing Mounting bracket, adjustable in 2 axes	2970331	TM-CFHAG-CT	Ancillary lens with external thread for M1/M2/M3/M5 sensors	
2970205	TM-MB-CT	Mounting bolts with M12x1 thread	2970299	TM-PWAG-CT	Protective window with external thread	
2970206	TM-MG-CT	Mounting fork, adjustable in 2 axes,	2970332	TM-PWH-CT	Protective window for M1/M2/M3/M5 sensors	
		with M12x1 fastening	2970333	TM-PWHAG-CT	Protective window with external thread	
2970207	TM-AP-CT	Air purge collar for sensors from 10:1 lens Air purge collar fro sensors from 10:1 lens	2370000		for M1/M2/M3/M5 sensors	
2970335	TM-APS-CT	made from stainless steel	Interface	s		
2970208	TM-AP2-CT	Air purge collar for sensor with 2:1 lens	2970223	TM-USBK-CT	USB interface kit: USB interface,	
2970209	TM-APL-CT	Air purge collar, laminar			USB cable, Software CompactConnect, second cable gland for controller	
2970210	TM-APLCF-CT	Air purge collar, laminar with integrated ancillary CF lens	2970224	TM-RS232K-CT	RS232 interface: RS232 interface, computer cable, software CompactConnect,	
2970357	TM-APLCFH-CT	Air purge collar, laminar with integrated ancillary CF lens for M1/M2/M3/M5 sensors			second cable gland for controller	
2970386	TM-APMH-CT	Air purge collar made from stainless steel for massive housing	2970338	TM-RS485USBK- CTL	RS485-USB-adapter, incl. PC cable, software CompactConnect and CTmulti, second cable gland for use with interface board TM-RS485B-CT	
2970211	TM-RAM-CT	Right angle mirror for measurements 90° to the sensor axis	2970226	TM-RS485B-CT	RS485 interface board incl.	
2970212	TM-RAIL-CT	Rail mount adapter for CT controller			second cable gland CAN-Bus interface for thermoMETER CT/	
2970213	TM-COV-CT	Closed cover for controller	2970227	TM-CANK-CT	protocol: CANopen presettings:	
2970214	TM-MHS-CT	Massive housing made from stainless steel			module address 20 (14H), 250kBaud, 0-60°C Profibus-DPv1 interface for thermoMETER CT	
2970215	TM-MHSCF-CT	Massive housing made from stainless steel with integrated ancillary CF lens	2970228	TM-PFBDPK-CT	with plug-in connection	
2970358	TM-MHSCFH-CT	Massive housing made from stainless steel with integrated ancillary CF lens for M1/M2/M3/M5 sensors	2970229	TM-ETHNK-CT	Ethernet-Kit: interface board, external Ethernet adapter, software CompactConnect	
2970216	TM-MHA-CT	Massive housing made from anodized aluminum	2970230	TM-RI-CT	Relay interface: Two electrically isolated relays, 60VDC/ 42VAC _{RMS} , 0.4A	
2070217	TM-MHACF-CT	Massive housing made from anodized aluminum	Calibrati			
2310211		with integrated ancillary CF lens		TM-CERT-CT	Certificate of calibration	
2970359	TM-MHACFH-CT	Massive housing made from anodized aluminum with integrated ancillary CF lens for M1/M2/M3/M5 sensors		TM-HTCERT-CT	Certificate of calibration for CTM sensors	
2970218	TM-MHB-CT	Massive housing made from brass	СТМЗ-ХІ			
2970219	TM-MHBCF-CT	Massive housing made from brass	_	- TM-FBXL-CT	Mounting bracket, adjustable in one axis	
		with integrated ancillary CF lens Massive housing made from brass with integrated		TM-ABXL-CT	Mounting bracket, adjustable in 2 axes	
2970360	TM-MHBCFH-CT	ancillary CF lens for M1/M2/M3/M5 sensors		TM-APXL-CT	Air purge collar, stainless steel	
2970220	TM-PT-CT	Protective tube made from brass		TM-XLCERT-CT	Certificate of calibration	
2970326	TM-PA-CT	Pipe adapter for the mounting of reflection protection tubes	2070001	IN ALCENT OF		
2970327	TM-ST20-CT	Reflection protection tube; length 20mm				
2970328	TM-ST40-CT	Reflection protection tube; length 40mm				
2970329	TM-ST88-CT	Reflection protection tub; length 88mm				
2970221	TM-LST-CT	Laser sighting aid for CT sensors incl. batteries (2xAlkaline AA)				
2970300	TM-LSTOEM-CT	OEM laser sighting aid, 635nm, 3.5m cable, for connection to CT controller				
2970300. 008	TM-LSTOEM- CT(008)	OEM laser sighting aid, 635nm, 8m cable, for connection to CT controller				
2970222	TM-EX-CT	Accessories kit for using CT in Ex areas (Zone 1: PTB 01 ATEX 2053/ E II (1/2) G [EEx ia/ib] IIC/IIB), pre-assembled EX box, without Zener barriers, applicable in combination with CT sensors (except for CTfast)				

TM-FB-CT Mounting bracket, adjustable in one axis

TM-AB-CT Mounting bracket, adjustable in two axes

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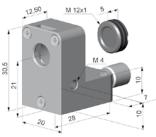
TM-CF-CT Ancillary CF lens (only for SF models)



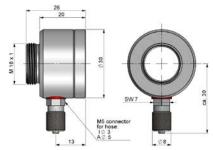
TM-CFAG-CT Ancillary CF lens with external thread TM-PWAG-CT Protective window with external thread



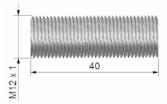
TM-APL-CT Air purge collar, laminar and TM-MG-CT Mounting fork



TM-APLCF-CT Ancillary CF lens/protective window - integrable variant for laminar air purge collar



TM-APMH-CT Air purge collar made from stainless steel for massive housing











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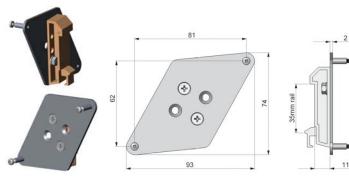
TM-MB-CT Mounting bolt with M12x1 thread

M 12x1

adjustable in one axis

3,20

TM-MG-CT Mounting fork with M12x1 thread, adjustable in two axes



TM-RAIL-CT Rail mount adapter for controller





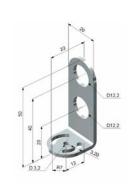
TM-PA-CT Pipe adapter for reflection protection tube







TM-LST-CT Laser sighting aid, battery-operated (2x Alkaline AA), for alignment of CT sensors (dimensions identical to CT sensor)

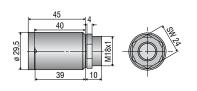


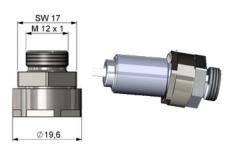
TM-FB2-CT Mounting bracket for sensor and laser sighting aid





TM-MHS-CT Massive housing, stainless steel TM-MHA-CT Massive housing, aluminum TM-MHB-CT Massive housing, brass

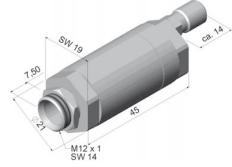




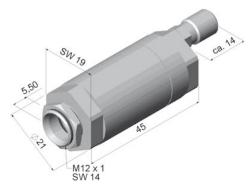
TM-TAS-CT Pivoted joint for CT sensors



Dirt and deposit on the lens like smoke, steam and high air humidity (condensation) are avoided or reduced by using an air purge collar.



TM-AP-CT Standard air purge collar for 10:1 / 15:1 / 22:1 lenses



TM-AP2-CT Standard air purge collar for 2:1 lens

Further IR temperature measurement devices from Micro-Epsilon



thermoIMAGER TIM Compact USB thermal imaging cameras for precise thermography



thermoMETER CTVideo/CSVideo IR temperature sensors with crosshair laser sighting and video output



thermoMETER Handheld Innovative handheld pyrometer with laser sighting for inspection and maintenance



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