

## CT11 Series

### Infrared Radiation Thermometer

- Temperature ranges for 0 to 2000 °C (32 to 3632 °F)
- Response times  $\geq 50$  ms
- Target size  $\geq 1$  mm (0.04 in.)
- $\pm 0.1$  °C temperature resolution capability
- Rugged stainless steel housing, IP68

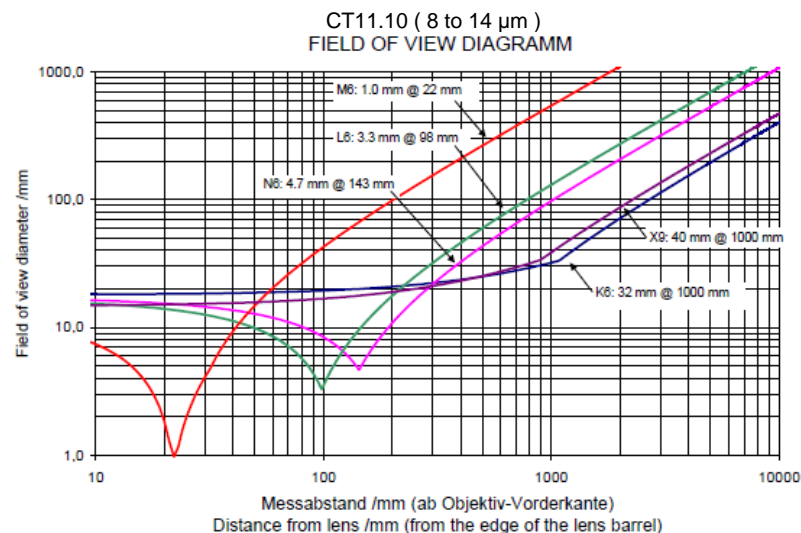
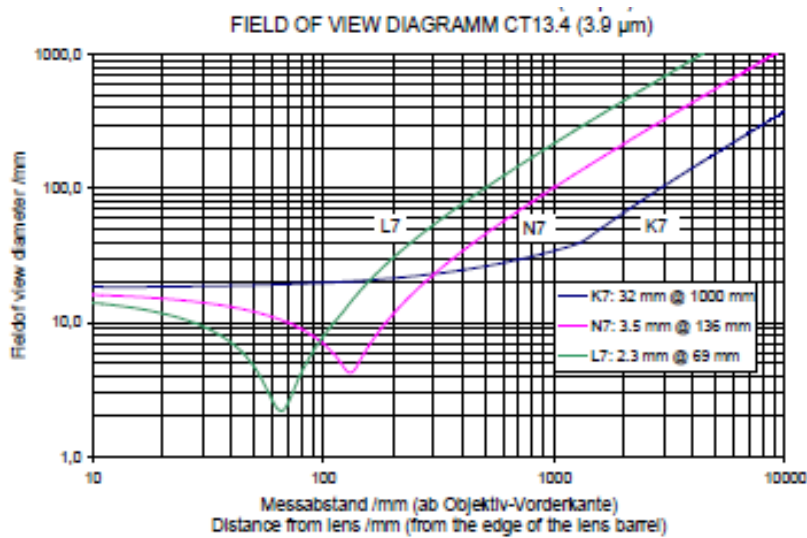
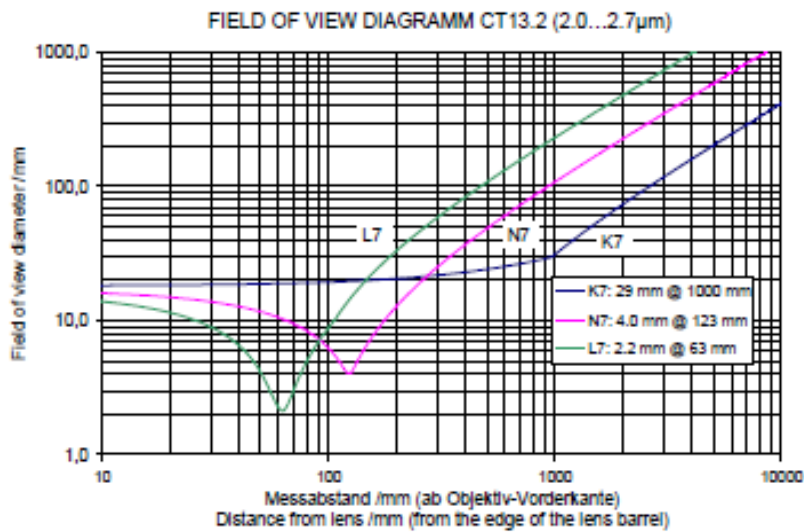


### GENERAL SPECIFICATION

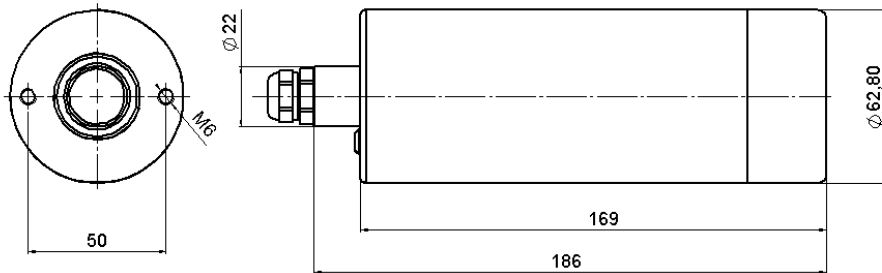
<b>Accuracy:</b>	0.8 °C (1.4 °F) $\pm$ 0.8% of difference between target and thermometer temperature
<b>Long term stability:</b>	Better than 0.01% of the absolute measured value per month
<b>Emissivity:</b>	0.100 to 1.000 , in 0.001-steps
<b>Response time:</b>	50 ms to 10 s (0.05, 0.1, 0.3, 1, 3, 10 s)
<b>Temperature unit:</b>	°C, °F or K
<b>Analog output:</b>	0 - 20 mA or 4 - 20 mA, scalable span $\geq 50$ °C (100 °F), Actual, max or min value, 12 bit resolution
<b>Serial interface:</b>	RS232, 9.6 to 57.6 kb
<b>Operating voltage:</b>	10.5 to 30 VDC or 12 to 24 VAC ( $\pm 10$ %) ; $\leq 2.5$ W
<b>Permissible ambient temperature:</b>	-25 to 60 °C (-13 to 140 °F); $\leq 300$ °C (570 °F) with WK15 Protective Cooling Housing
<b>Storage temperature:</b>	-40 to 85 °C (-40 to 185 °F)
<b>Protection class:</b>	IP68 ( protects up to immersion-like conditions in water – exceeds NEMA4X )
<b>Housing:</b>	304 stainless steel
<b>PC-based Software:</b>	EasyConfig: Software for parameter setting ( supplied with each CT11 ) EasyMeasure: EasyConfig features plus data recording, storage & evaluation (option)
<b>Programmable functions via RS232 interface:</b>	Emissivity, background temperature, analog output scale & function, response time, temperature unit, valley/peak picker with decay function. Optional trigger input function

<u>Application / Material</u>	<u>Model / Spectral Range</u>	<u>Temperature Range / °C</u>
Metals, Combustion Zone temperature for PetroChem industry..	CT11.2 / 2 to 2.7 $\mu$ m	500 ... 2000
Glass & Quartz volume – sub surface.....	CT11.4 / 3.9 $\mu$ m	200 ... 1000
Paper, Thick Plastics, Rubber, Textiles, Asphalt, Wood, Agriculture, Sea Surface, Ice & Ground, Food etc.....	CT11.10 / 8 to 14 $\mu$ m	0 ... 500

## Field of View Diagrams



## DIMENSIONS



Specify 12 core wiring cable length and jacket material type. 2m, 5m etc. PVC, TFE, or TPE

## ACCESSORIES and OPTIONS for Housings and Mountings *(partial listing of what is available)*

