HEITRONICS
Infrarot Messtechnik

CT09

Infrared Radiation Pyrometer CT09

- Rugged stainless steel housing, IP65
- Wide temperature range from -30 to 900 °C
- Very fast response times ≥ 50 ms (programmable)
- Fields-of-view as small as 1 mm
- Compatible to Infrared Radiation Pyrometer KT12

GENERAL SPECIFICATION

Temperature range:	■	-30 to 500 °C; □ 0 to 900 °C
Temperature resolution (NETD):	■	Depends on measured temperature and response time, typical value 0.2 °C (at 300 ms, 100 °C, **ε=** 1)
Accuracy (uncertainty):	■	± 1.0 °C plus 0.6 % of the difference between target and sensor head temperature as a function of housing temperature: 0.01 % / °C for housing temp. others than 25 °C
Long term stability:	■	Better than 0.01% of the absolute measured value per month
Field of view diameter:	■	From Ø 1 mm, depends on lens
Spectral response:	■	8 to 14 µm
Programmable functions via serial interface:	■	Emissivity, environmental temperature, analog output, function of analog output, response time, temperature unit, valley/peak picker with decay function, alarm values and output (B)
Emissivity:	■	0.100 to 1.000 in 0.001-steps
Response time:	■	From 50 ms to 10 s (0.05; 0.1; 0.3; 1; 3; 10 s)
Temperature unit:	■	°C, K or °F
Analog output (Hardware):	■	Linear 0 - 20 mA, or 4 - 20 mA, scalable temperature span ≥ 50 °C
Analog output (Functions):	■	Actual value, max-value or min-value
Analog output (Resolution):	■	12 bit
Valley/peak picker programmable:	■	Reset: internal
	□	Reset: external input
Serial interface:	■	RS232-interface, bi-directional, 9.6 to 57.6 kbps, for programming and data transfer
Alarm output:	□	Programmable (open collector)
Operating voltage:	■	15 VDC to 32 VDC
Power consumption:	■	Approx. 1.6 W
Permissible ambient temperature:	■	-25 to 70 °C
	□	With protective and cooling housing WK11 up to 300 °C
Storage temperature:	■	-40 to 85 °C
Protective class:	■	IP65 (IEC), (NEMA 4 equivalent)
Housing:	■	Stainless steel
PC-based Software:	■	EasyMeasConfig: Software for parameter setting
	□	EasyMeas: Software for parameter setting, data recording, data storage and data evaluation

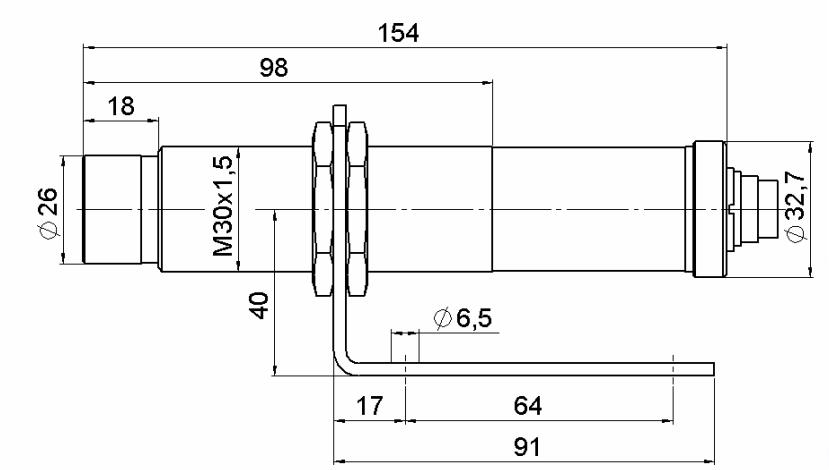
■ Standard function □ Option	(B) with option „Alarm output“

HEITRONICS
Infrarot Messtechnik

SELECTION GUIDE
FOR CT09-Series

CT09 Lens type	Field of view @ mm distance
CT09.K	40 mm @ 1 m
CT09.L	3 mm @ 110 mm
CT09.M	1 mm @ 25 mm
CT09.N	4.5 mm @ 165 mm

DIMENSIONS



CT09 Dimensions in mm

ACCESSORIES

Protective and cooling housing WK11