HEITRONICS
Infrarot Messtechnik

KT18.04RD

Infrared Radiation Thermometer

- Dual and Single Wavelength
- Very fast response time from 1 ms on
- Laser aiming LED or view finder
- Robust design for heavy industry

Measurement specifications	
Temperature range[1]:	300 … 1000 °C, 350 … 1300 °C, 400 … 1400 °C or 500 … 1700 °C
Temperature span:	300 ... 1200 °C
Measurement uncertainty:	0.5 % of the measured value in °C ± 1 °C (ε = 1, $T_{amb.}$ = 23 °C, T_{95} = 1 s)
Reproducibility:	0,1 % of the measured value in °C ± 1 °C (ε = 1, $T_{amb.}$ = 23 °C, T_{95} = 1 s)
Field of view:	from Ø 1.3 mm (± 5 %) on, depending on optic and detector
Response time (t_{90}):	From 1 ms on
Temperature unit:	°C or °F
Emission ratio	-0.8 … 1.2

Electrical specifications / Functions		
Analog output: **Function:**	0 … 20 mA; 4 … 20 mA Actual, maximum value	
Digital output option: **Function:**	open-collector 24 VDC / max. 100 mA Min. intensity, limit	
Digital input option: **Function:**	Push button Reset of memory, (de-)activate digital outputs or laser	
Serial interface:	RS232 isolated ± 50 V or RS485 isolated 2500 V RMS	
Aiming options:	Green LED, laser or sight	
Programmable via serial interface:	Emissivity, digital output, analog output, partial measuring range, temperature unit, Max value memory, average value, light beam aiming device switchable	
Operating voltage:	DC: 24 V ± 10 %	AC: 18 V ± 10 %
Power consumption:	< 160 mA	

1 Depending on configuration

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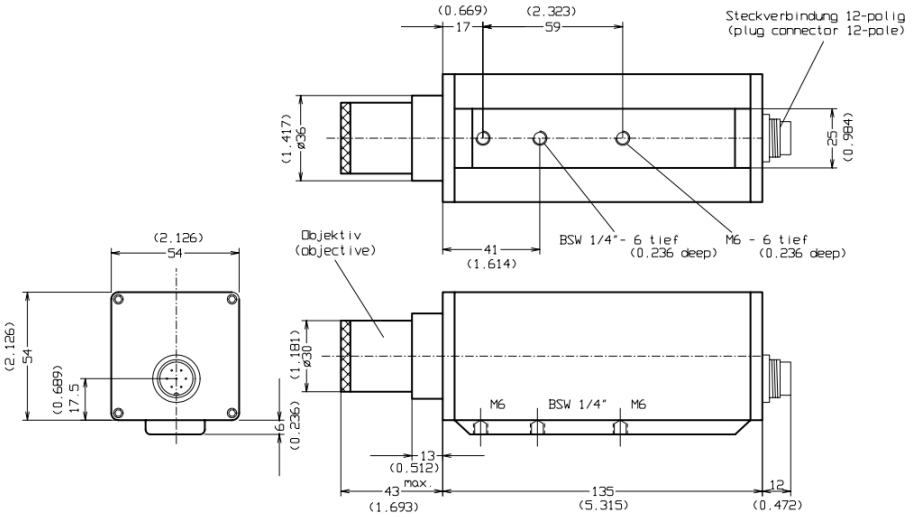
General specifications	
Storage temperature:	-10 … 70 °C
Permissible ambient temperature:	0 … 50 °C (optic system up to 150 °C)
Protection class:	IP65
Housing:	Aluminum
Weight:	Appr. 0.6 kg

Scope of supply and options[2]		
Accessories:	■[3]	Manual
	■	Software EasyLog
	■	Connecting cable with 12-pin female connector 2 m length, PVC, unterminated ends
	□	Connecting cable, ≥ 5 m length: PTFE; PUR; PVC; TPE, unterminated ends or 12-pin female connector
Calibration certificate:	□	HEITRONICS certificate
Housing:	□	Protective cooling jacket (water) for ambient temperatures above 60 °C
Mechanical accessories:	□	Air purge fitting, beam deflection 90°…
Bus interface:	□	With transducer (Profibus, Profinet, Ethernet, Ethercat, USB 2.0)

Dimensions[4]



Unit: mm (inch)

2 Special model specification on request.
3 ■ Standard function
□ Option
4 The dimensions given within this document will be valid for the drawing shown.