

OI98Exxx

infrared thermometer

- ✓ 2:1 optical resolution
- ✓ robust aluminum cast execution
- ✓ illuminated LED display
- ✓ amplifier temperature up to 65 °



Silicone-free sensor head can be used without cooling up to 250°C

sensor head

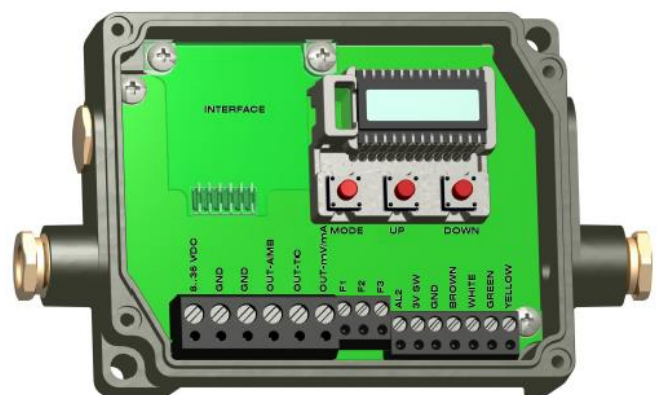
optical resolution	2:1
ambient temperature	-20 bis 250°C
temperature measurement range	-40°C bis 975°C
spectral range	8 bis 14µm
reproducibility	±(0.5% Tmess +0.5°C) at ambient temperature 23±5°C

amplifier

power supply	8 to 36V DC
ambient temperature	0 to 85°C
relative humidity	10 to 95%, non condensing
protection class	IP65
current consumption	max. 100mA
emissivity (amplification)	0.100 bis 1.100
system accuracy	±1.5°C or ±1% at ambient temperature 23±5°C
reproducibility	±(0.5% Tmess +0.5°C) at ambient temperature 23±5°C
response time	100ms
temperature resolution	0.25K
temperature resolution (display)	0.10K

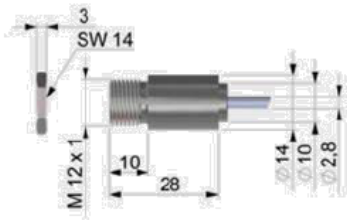
pin configuration

+8...36 VDC	power supply +
GND	power supply -
GND	(0V) Internal inputs and outputs
OUT-AMB	sensing head temperature (mV)
OUT-TC	thermocouple (J or K)
OUT-mV/mA	object temperature (mV or mA)
F1-F3	function inputs
AL2	alarm 2 (Open-collector output)
3V SW	3 VDC, switchable, for laser sighting aid
GND Masse	(0 V) for laser sighting aid
BROWN	temperature sensor measuring head
WHITE	temperature sensor measuring head
GREEN	detector signal (-)
YELLOW	detector signal (+)

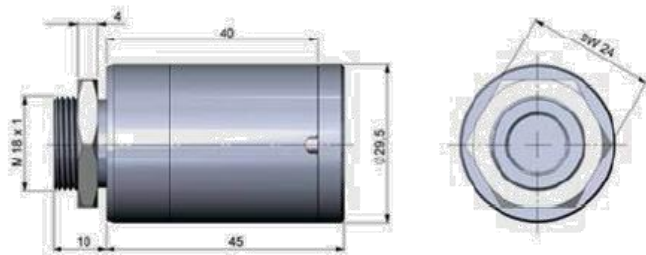


Dimensional drawing

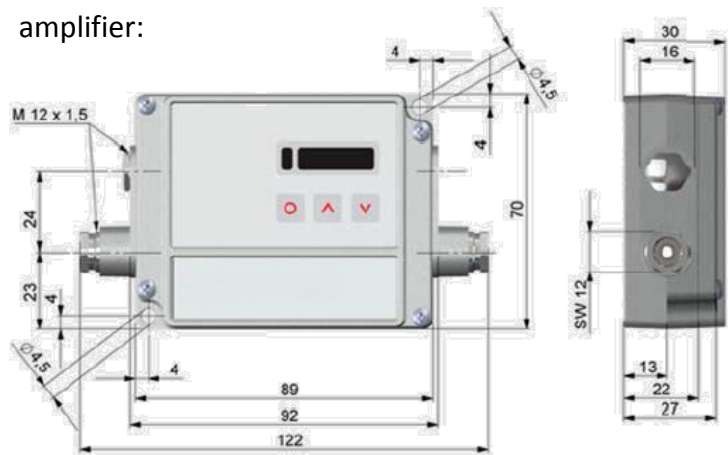
sensor head:



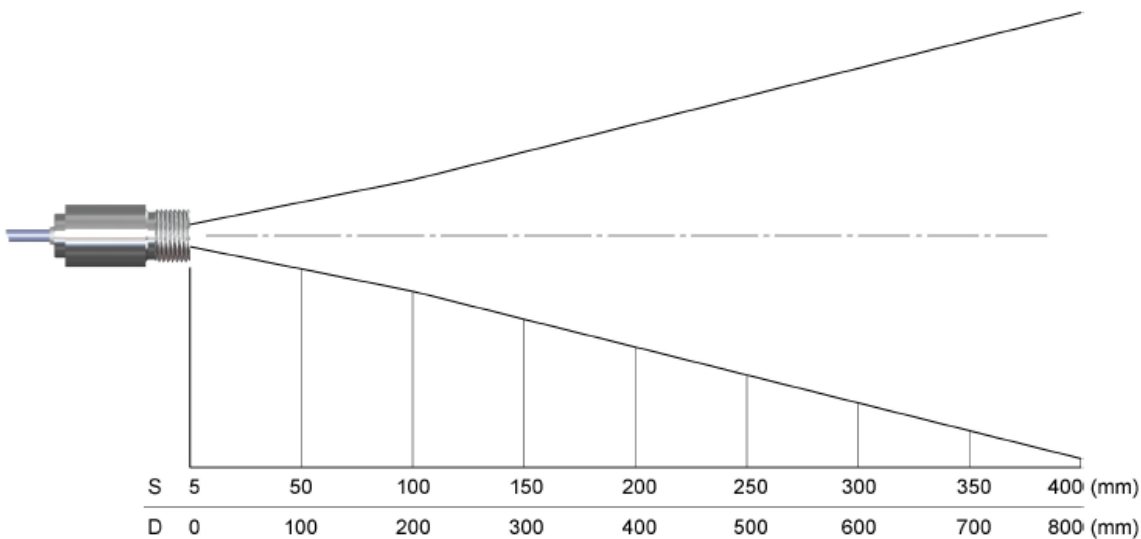
massive housing:



amplifier:



Messfleck:



D = Entfernung von der Vorderkante des Gerätes zum Messobjekt

S = Messfleckgröße

Das Verhältnis D:S gilt für die Fokussentfernung.

Safety warnings:

Before initial operation, please make sure to follow all safety instructions that may be provided in the product information.

Never use these articles in applications where the safety of a person depends on their functionality.