

Non-contact Infrared Temperature Sensors **TF-300**

Small, stationary infrared thermometers in 2-wire technique for non-contact temperature measurement of non-metallic surfaces between -20°C and 600°C

Very small housing dimensions for easy installation, suitable for use in confined spaces

2-wire technique for current supply and temperature measurement at the same time

Stainless steel housing

Easy electrical and mechanical installation

Suitable for food industry

Ambient temperature up to 70°C without cooling



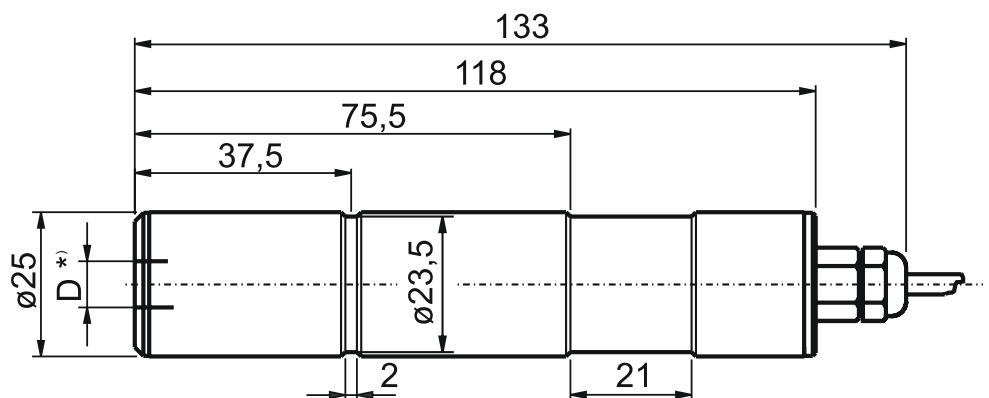
STANDARDLIEFERUMFANG for all TF Geräte

- TF with 2m Connection cable
- Inspection sheet
- Operating instructions

TYPICAL APPLICATIONS ARE MEASUREMENTS ON:

- Plastics
- Rubber
- Paper
- Ceramics
- Textiles
- Food
- Fluids
- Painted parts
- Asphalt
- Wood
- Glass
- Coated metals

The TF 300 is a stationary pyrometers for non-contact temperature measurement of non-metallic surfaces or painted, coated or anodized metals. The very small housing dimensions enable the integration of the pyrometer into compact production machines, the 2-wire technique enables very easy electrical connection. The solid and robust design of the instrument guarantees high operational safety even in rough industrial environments.



Technical data

Spectral range:	8 ... 14 μm
Optics::	Ge lens
Output:	4 ... 20 mA, load independent current, temperature linear
Max load:	500 Ω at 24 V power supply
Emissivity ϵ :	0.4 ... 1; adjustable
Response time t_{90} :	300 ms
Uncertainty:	1.5% of measuring range / $^{\circ}\text{C}$ ($\epsilon = 1, T_{\text{amb.}} = 23^{\circ}\text{C}$)
Repeatability:	1% of measuring range
Temp. dependence:	0 ... 60 $^{\circ}\text{C}$: 0.03% of measuring range per $^{\circ}\text{C}$ (23 $^{\circ}\text{C}$)
Distance ratio:	15 : 1
Power supply:	24 V DC \pm 25% stabilized, ripple < 50 mV
Ambient temperature:	0 ... 70 $^{\circ}\text{C}$
Storage temperature:	-20 ... 70 $^{\circ}\text{C}$
Housing:	stainless steel
Protection class:	IP65 (DIN 40 050)
Weight:	215 g
Connection cable:	2 m length, fixed
CE label:	according to EU directives about electromagnetic immunity

