



NON-CONTACT INFRARED TEMPERATURE SENSOR TF-300

2-WIRE TECHNIQUE FOR NON-CONTACT TEMPERATURE MEASUREMENT OF NON-METALLIC SURFACES

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

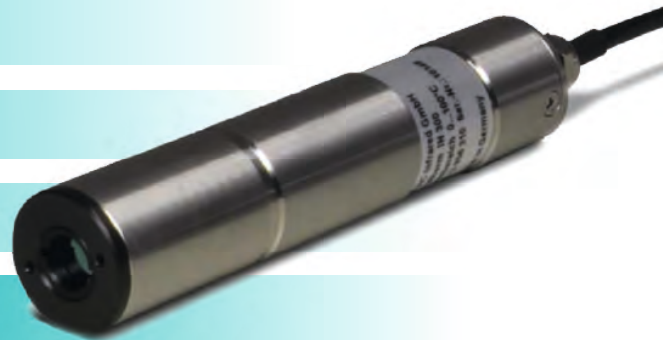
2-wire technique for current supply and temperature measurement at the same time

Stainless steel housing

Easy electrical and mechanical installation

Suitable for food industry

Ambient temperature up to 70°C without cooling



The TF 300 is a stationary pyrometer for non-contact temperature measurement of non-metallic surfaces or painted, coated or anodized metals.

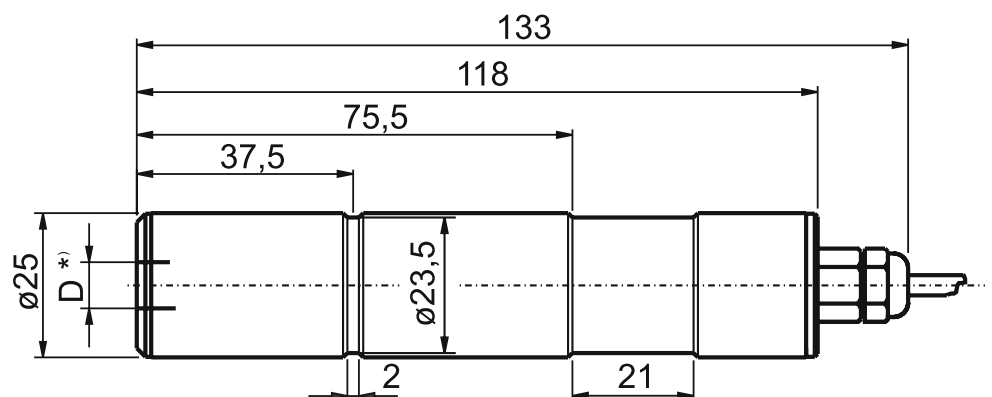
The very small housing dimensions enable the integration of the pyrometer into compact production machines, the 2-wire technique enables very easy electrical connection. The solid and robust design of the instrument guarantees high operational safety even in rough industrial environments.

TYPICAL APPLICATIONS / MEASUREMENTS ON

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

STANDARD DELIVERY

- TF with 2m cable
- inspection sheet
- User Guide



TECHNICAL DATA

MEASURING RANGES	0 ... 100°C 0 ... 500°C 0 ... 200°C 0 ... 600°C -20 ... 300°C
SPECTRAL RANGE	8 ... 14 μm
OPTICS	Ge-Linse
OUTPUT	4 ... 20 mA, load independent current, temperature linear
MAX. LOAD	500 Ω at 24 V power supply
EMISSIONITY ϵ	0,4 ... 1; adjustable
RESPONSE TIME t_{90}	300 ms
UNCERTAINTY	1,5% of measuring range / °C ($\epsilon = 1$, $T_u = 23^\circ\text{C}$)
REPEATABILITY	1% of measuring range
TEMPERATURE DEPENDENCE	0 ... 60%: 0,03% of measuring range per °C (23°C)
DISTANCE RATIO	15:1
POWER SUPPLY	24 V DC \pm 25% stabilized, ripple < 50mV
AMBIENT TEMPERATURE	0 ... 70°C
STORAGE TEMPERATUR	-20 ... 70°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

