



ITS - Series (Temperature switch)

Fast infrared temperature switch to detect hot parts and initiate a switch operation in a temperature range between 400 ... 1500 °C.
At the rear of the instrument is a potentiometer located to adjust the needed switch mark (switch temperature).
Application areas for this fast sensor is the detection of hot parts as well as counting and positioning processes.

Typical applications:

- Steel industry
- Any kind of machinery
- Induction heating machines

Scope of delivery:

ITS - type with inspection sheet, user manual, supply in INFRAPOINT-Box
The connection cable is **not included** in scope of delivery.
Please order the cable separately!



400 ... 1500 °C
752 ... 2732 °F

Mounting support, fix
Order-No. 4 749 306 Fig.: ITS with fixed mounting support

Technical Data	ITS 14	ITS 15
Measuring range (Switch mark) Spectral range	400 ... 1400 °C (752 ... 2552 °F) 0.85 ... 1.8 µm	700 ... 1500 °C (1292 ... 2732 °F) 0.85 ... 1.05 µm
Output	Transistor switch (output 20 V or 30 mA shorted to ground)	
Accuracy Repeatability	0.75 % of measuring value at ε = 1 and 23 °C ambient temperature < 0.3 % of measuring value	
Response time Emissivity LED pilot light	1 ms fix, ε = 1 LED-pilot light	
Operating temperature Power supply Safety class	max. 50 °C 24 V DC ± 15 %, 50 mA IP 65 (acc. to DIN 40050)	
Housing Dimensions Test basis	Stainless steel 40 mm x 113 mm (D x L) EN 55011: 1998, Limit class A	
Order-No. Optics 300 mm Optics 800 mm Optics 1200 mm	4 431 403 4 431 408 4 431 412	4 421 503 4 421 508 4 421 512

Please note: The connection cable is **not included** and must be ordered separately!

Standard optics :

Measuring distance	300 mm	800 mm	1200 mm
Spot size diameter	6 mm	12 mm	18 mm

Connection cable

2 m	4 749 370
5 m	4 749 372
10 m	4 749 374
20 m	4 749 376



Air purge unit
Order-No. 4 749 303



Mounting support,
adjustable
Order-No. 4 749 305



Ball- and socket mounting
Order-No. 4 749 304



Fig.: ITS with air purge and adjustable mounting support



Cooling jacket with
air purge and mounting
Order-No. 4 749 302