



IN 3000

Stationary infrared sensor heads for non-contact temperature measurement for non-metallic surfaces between 0°C and 500°C

The small and compact infrared sensor

- output: 10 mV/°C, Thermocouple Typ K or J
- Stainless steel housing with PG-11-thread
- Easy installation and connection
- Up to 70°C operating temperature
- small and handy
Ø 18.6 mm x L 105 mm



Applications:

- | | | |
|--|---|--|
| <ul style="list-style-type: none">• plastics• rubber• wood• paper | <ul style="list-style-type: none">• textile• paint• varnish• liquids | <ul style="list-style-type: none">• asphalt• glass• ceramic• food |
|--|---|--|

Technical data:

| | | | |
|--------------------|--|------------------------|---|
| Spectral response: | 8 ... 14 μm | Power supply: | 24 V DC \pm 25% |
| IR-detector: | Thermopile Si-based | Power consumption: | 8 mA |
| output resistor: | 50 Ohm | Operating temperature: | 0 ... 70 °C |
| output: | 10mV/°C or J- or K-thermocouple | Storage temperature: | -30 ... 85 °C |
| Max. load: | 50 kOhms | Housing: | Stainless steel |
| Emissivity: | 0.95 fixed | Safety system: | IP 65 (according DIN 40 050) |
| Response time: | 300 ms | Safety class: | I according VDE 0411 |
| Repeatability: | \pm 1% of measured value or \pm 1°C *) | Mounting position: | any |
| Accuracy: | \pm 1.5% of temp. range or 2.5°C *) | Weight: | 200 g |
| Distance ratio: | 1:5 | EMV-tests: | CE-label for ESD, RF-radiation bursts, electromagnetic fields |
| Connection cable: | PVC, 1 m | | |

*) the higher value is valid

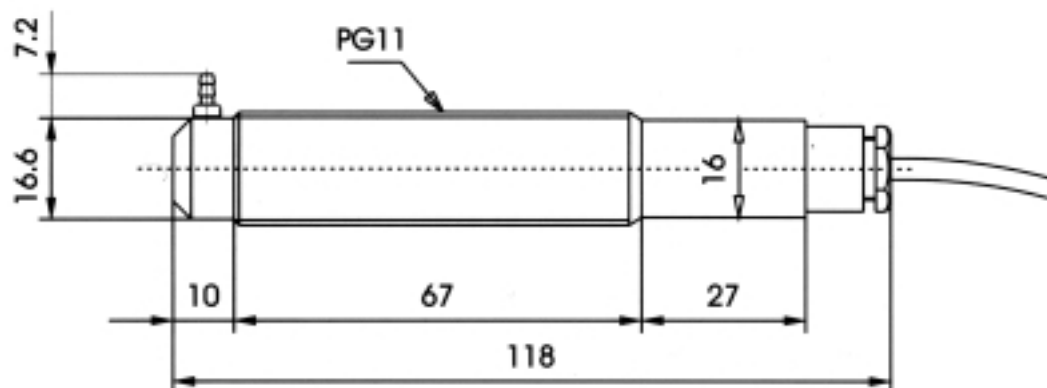
Measuring ranges and order references:

| | |
|--|-----------|
| IN 3000 | 3 856 ... |
| IN 3000 with integrated air purge unit | 3 885 ... |

| Measuring ranges: | Output | | |
|-------------------|-----------------------|-----------|-----------|
| | 10 mV/°C | Typ J | Typ K |
| 0...120°C | 710 (0...1.2 V) | 720 | 730 |
| 0...300°C | 750 (0...3 V) | 760 | 770 |
| 100...500°C | 810 (1...5 V) | 820 | 830 |

Example: IN 3000 with air purge unit, type K, 0 ... 300 °C: 3 885 770 (Order-No.)

Dimensions:



Accessories:

| | | | |
|---------------------|-----------|-----------------------------|-----------|
| power supply 24 VDC | 3 890 600 | adjustable mounting support | 3 834 260 |
| cooling jacket | 3 837 180 | mounting support | 3 834 250 |
| 90° mirror | 3 835 250 | | |

impac

Service Guarantee:

Our technical staff are always available to assist with your application.

Your impac distributor

Specifications are subject to change without notice.