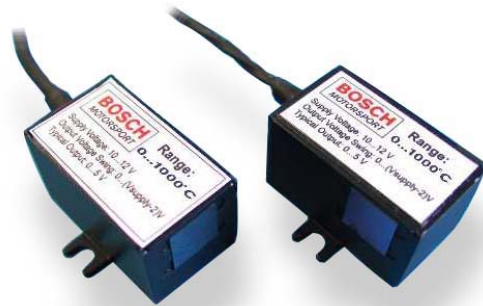


Temperature Sensor TI 1000

Temperature range: up to 1000°C

This measurement system is used for the non-contact measurement of surface temperatures e.g. of tyres or brake disc s based on IR-radiation. The sensor is integrated in an ambient temperature compensated module with mirror optics and additional IR-window in protection against contamination and condensation. Various connector options are available.



Mechanical data

| | |
|------------|-----------------|
| Dimensions | 20 x 21 x 36 mm |
| Length L | 100 ... 1500 mm |
| Weight 51 | g |

Conditions for use

| | |
|-------------------|----------------|
| Temperature range | -20 ... 1000°C |
| Field of view | ± 3° |

Electronic data

| | |
|----------------------|-----------------------|
| Power supply | 10 ... 12 V |
| Input current | 2,5 mA |
| Output voltage swing | 0 ... (Vsupply - 2) V |
| Typical output | 0 ... 5 V |
| Response time | 20 ms |

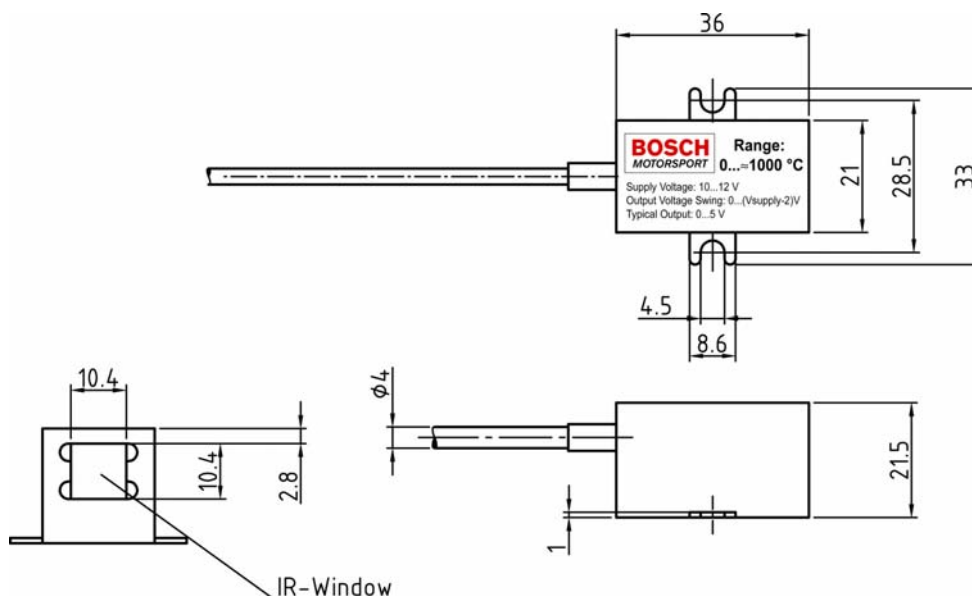
Order numbers

Front view:

| | |
|-----------------|----------------------|
| AS 6-06-05PN-HE | B 261 209 390 |
| Offer drawing | A 261 209 390 |

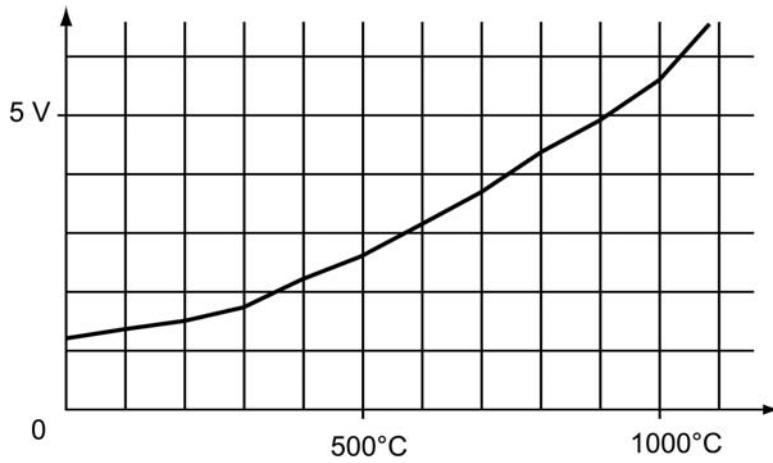
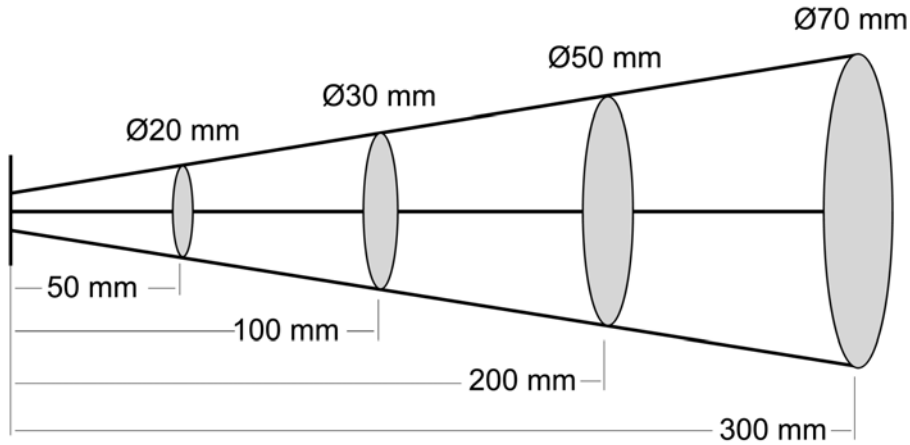
Right view:

| | |
|-----------------|----------------------|
| AS 6-06-05PN-HE | B 261 209 391 |
| Offer drawing | A 261 209 391 |



Working area

Spot size of the sensor for 90% of irradiance from field view



| Tobject °C | Vout |
|------------|-------|
| -20 | 1,216 |
| 0 | 1,227 |
| 20 | 1,240 |
| 25 | 1,244 |
| 40 | 1,257 |
| 60 | 1,277 |
| 80 | 1,301 |
| 100 | 1,328 |
| 120 | 1,360 |
| 140 | 1,395 |
| 160 | 1,435 |
| 180 | 1,478 |
| 200 | 1,526 |
| 220 | 1,577 |
| 240 | 1,632 |
| 260 | 1,691 |

| Tobject °C | Vout |
|------------|-------|
| 280 | 1,754 |
| 300 | 1,820 |
| 350 | 2,000 |
| 400 | 2,200 |
| 450 | 2,418 |
| 500 | 2,652 |
| 550 | 2,901 |
| 600 | 3,163 |
| 650 | 3,437 |
| 700 | 3,722 |
| 750 | 4,017 |
| 800 | 4,321 |
| 850 | 4,633 |
| 900 | 4,952 |
| 950 | 5,278 |
| 1000 | 5,610 |