



# Accurate Sensors Technologies

## Highly Accurate Infrared Non Contact Pyrometer

100°C...600°C

### FR 3000

#### Features:

- High accuracy in real world conditions
- Capable of measuring targets with variable emissivity
- Temperature range: 100-600°C / 212-1048°F
- Rugged design
- Full range of accessories
- Wide range of built-in functions
- Pointing laser source: Class II

#### Application:

Forging, continuous casting, Cold rolling.

#### Performance:

- Tmin (Emissivity  $\epsilon=0.3$ )..... 120°C
- Tmin (Emissivity  $\epsilon =1.0$ , Black body).....100°C.
- Response time: 0.1 - 10 Sec (Default value: 0.5 sec)

#### Accuracy (blackbody)

- Above 300°C =  $\pm 0.3\%$  of measured value
- 300-200°C =  $\pm (0.3\% +1^\circ\text{C})$
- 200-150°C =  $\pm (0.7\% +1^\circ\text{C})$
- 150-100°C =  $\pm (1.0\% +2^\circ\text{C})$

#### Electrical specifications:

- Power supply: 24 (18-36) V DC; 0.4A
- Optional outputs: 4-20 mA, 0-20 mA, 0-10 V, RS-232, RS-422, RS485, Alarms, Profibus.

#### Optional:

- Display P110 monochrome single channel
- Scanning System PS3000.

#### Mechanical specifications:

- Sensor overall dimensions: 273 x 127 x 113.5 mm
- Sensor weight: ~3.5 kg

#### Ambient condition:

- Operating temperature range: 0°C ° to +50°C
- Storage temperature range: -20°C ° to +70°C
- Humidity: unlimited for the sensor-head

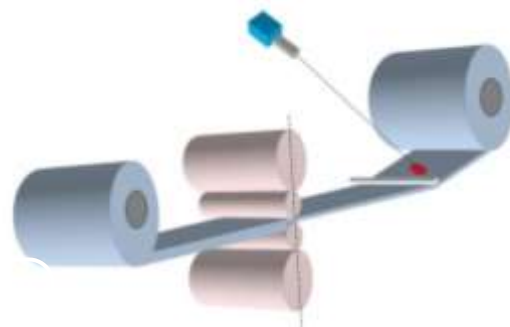
#### Optics:

- Spot diameter: 1:50 (20mm from a distance of 1 meter)
- Various optics is available upon request.



FR 3000 Pyrometer

### Possible applications



Cold Rolling



Rod Coiling

## We measure accurate temperature in extreme conditions

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