# **PyroNFC**

# Smartphone Configurable Infrared Temperature Sensor



- Non-contact industrial temperature sensor
- Fully configurable via smartphone app
- Voltage output (linear with temperature) and open collector alarm output. Both can be used simultaneously
- Measures from 0°C to 1000°C, accurately and consistently
- Extremely small, with side-entry cable: ideal for mounting in tight spaces
- Fast response time: 125 ms
- Low cost, high performance
- Operates in ambient temperatures up to 85°C without cooling
- Form factor optimised for brake testing applications, plus many others

# APP FEATURES



- Continuously read temperature from PyroNFC sensors
- Instantly configure PyroNFC sensors without powering them
- Simply touch the sensor with the device to communicate
- Compatible with NFC-equipped Android devices
- Get the app free from Google Play Store (search for "PyroNFC")

# **GENERAL SPECIFICATIONS**

#### **Temperature Range**

0 to 1000°C

#### **Outputs**

2 outputs, configurable via NFC: 0-5 V DC or 0-10 V DC output, linear with measured temperature, rescalable, and: Open collector alarm output with temperature threshold and hysteresis

#### Field of View

15:1 (see OPTICS)

#### Accuracy

 $\pm$  1.5% of reading or  $\pm$  1.5°C, whichever is greater

# Repeatability

 $\pm$  0.5% of reading or  $\pm$  0.5°C, whichever is greater

# Response Time, t<sub>90</sub>

125 ms

## Configuration

Via Android app using NFC-equipped device (e.g. smartphone or tablet)

#### **Emissivity**

Adjustable via app

### **Emissivity Setting Range**

0.2 to 1.0

Max Temperature Span (Linear Output)

Min Temperature Span (Linear Output)

#### **Spectral Range**

8-14 µm

# Max. Supply Voltage

28 V DC

## Min. Supply Voltage (at Sensor)

12 V DC (for 10 V output) 6 V DC (for 5 V output)

#### **Max Current Draw**

6 mA

#### **ENVIRONMENTAL**

# **Environmental Rating**

**IP65** 

# Ambient Temperature Range

0°C to 80°C

# **Relative Humidity**

95% max. non-condensing

# **CONFORMITY**

# Electromagnetic Compatibility (EMC)

EN61326-1, EN61326-2-3 (Electrical Equipment for Measurement, Control and Laboratory Use - EMC Requirements - Industrial)

# **RoHS Compliant**

Yes

# **APP**

#### **Configurable Parameters**

Temperature range

Linear voltage output type and scale Alarm output threshold and hysteresis

Emissivity setting

Reflected temperature

# Temperature Units

°C / °F

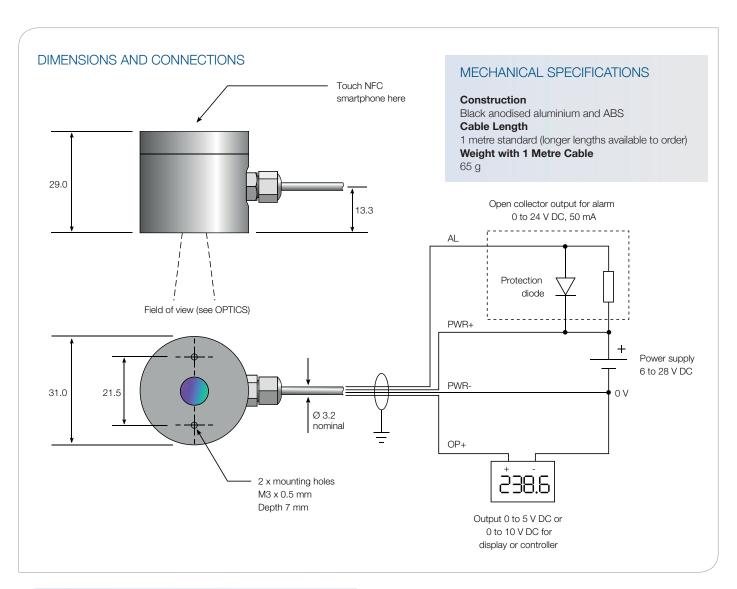
#### **Signal Processing**

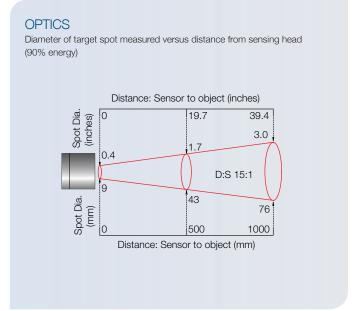
Averaging Period (0.125 to 60 seconds) Peak / Valley Hold

Hold Period (0.125 to 1200 seconds)

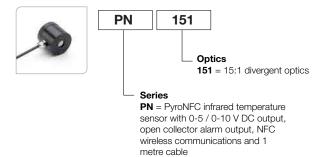
#### **Real Time Temperature Reading**

Hold NFC device against sensor for continuous in-app temperature updates





# MODEL NUMBERS



# **ACCESSORIES**

Fixed mounting bracket **FBN** 

Adjustable mounting bracket **ABN** 

Air purge collar **APN** 

3-point UKAS traceable calibration certificate **CALCERTA** 

Extended cable (30 m max) **PNCE**