Ka sense analyse control

KIR SERIES KIR3 INFRA-RED TEMPERATURE SENSOR

The KIR3 Series of Infra-Red Temperature Sensors are designed to withstand the harsh environments of motorsport and automotive testing applications.

By using a proven Infra-Red technology, the KIR3 offers high performance and reliability at even under extreme temperature and vibration.

Offering a compact, robust and reliable solution for non-contact measurements on motorsport applications such as: tyres, carbon, steel brakes and engine temperatures.

Fully user programmable, the temperature range and the emissivity gain can be set to optimise the output for a wide range of applications.

Simple user friendly configuration software allows optimum setup of the sensor for each application — or KA Sensors can supply the sensor already setup ready to use.

TECHNICAL SPECIFICATIONS

Temperature Ranges	-20°C to +1000°C		
Accuracy	<±1.5°C FS		
Emissivity Gain	0.10 to 1.10 (Adjustable)		
Spectral Range	8-14µm		
Optical Range	10:1 (10mm Spot at 100mm)		
Output	0V-5V (Adjustable)		
Supply	5-28Vdc		
Operating Temperature Range	Sensing Head: -20°C to +125°C Electronics Housing: -20°C to +75°C		
Repeatability	±0.75°C		
Response Time	30ms to 2 Seconds (95% Signal/Adjustable Via Software)		
Protection Class	IP65		
Construction	Carbon Tube for Electronics, Stainless Steel		
Electrical Connection	50cm from Sensor to Electronics, 100cm from Electronics to Flying Leads, 55Spec, 26 AWG Cable + DR25 Sleeve		
Weight	70g (Including Sensor, Cable and Electronics)		
Options	Cable Assembly, Connection and Labelling		

Sensors

For <u>Motorsport</u>

Features

- -20 to 1000°C Range
- Fully Programmable
- Miniature Size
- 10:1 Optics
- IP65 Sealed
- 0 to 5V Output

Applications

- Tyre Temperature
- Brake Temperature
- Engine & Exhaust Temperatures

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KA Sensors adopts a continuous development program which sometimes necessitates specification changes without notice.

PRESSURE | TEMPERATURE | FORCE | TORQUE | POSITION | SPEED | ACCELERATION | GYRO

PART NUMBER CONFIGURATOR

 Sensor to Electronics
 50cm - 050

 Electronics to Flying Leads
 100cm - 100

 Special Codes
 None _ 000

 With USB Cable and Software
 USB

The KA configuration tool is used to specify a standard KA Sensor, other options are available.

MECHANICAL DETAILS





CONNECTION DETAILS

	+Ve Supply	OV Supply	Output	Comms
Sensor	Red	Black	White	Green
USB Cable	White	Brown	Yellow	Green

Sense Analyse Control

Services for:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact us

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