



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 on-vehicle automotive testing applications.

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

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

Fully user programmable, the temperature range and the emissivity gain can be set to optimize 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 setup and ready to use.

TECHNICAL SPECIFICATIONS

Temperature Ranges	-40°F to 1800°F (-40°C to +1000°C)
Accuracy	<±3°F
Emissivity Gain	0.10 to 1.10 (Adjustable)
Spectral Range	8-14µm
Optical Range	15:1 (1.05" Spot at 15.7")
Output	0-5Vdc (Adjustable)
Supply	5-30Vdc
Operating Temperature Range	Sensing Head: -5°F to 250°F (-20°C to +125°C) Electronics Housing: -5°F to 165°F (-20°C to +75°C)
Repeatability	±0.25°F
Response Time	30ms to 2 Seconds (95% Signal/Adjustable Via Software)
Protection Class	IP65
Construction	Carbon Tube for Electronics, Stainless Steel
Electrical Connection	20" from Sensor to Electronics, 40" from Electronics to Flying Leads, 55spec, 26 AWG Cable + DR25 Sleeve
Weight	2.4oz (Including Sensor, Cable and Electronics)
Options	Cable Assembly, Connection and Labelling

Sensors For Motorsport

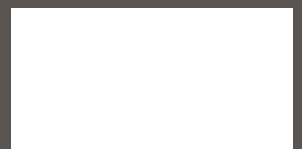
Features

- -40°F to 1800°F Range
- Fully Programmable
- Miniature Size
- 15:1 Optics
- 0 to 5Vdc Output

Applications

- Tire Temperature
- Brake Temperature
- Engine & Exhaust Temperatures

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Represented by:

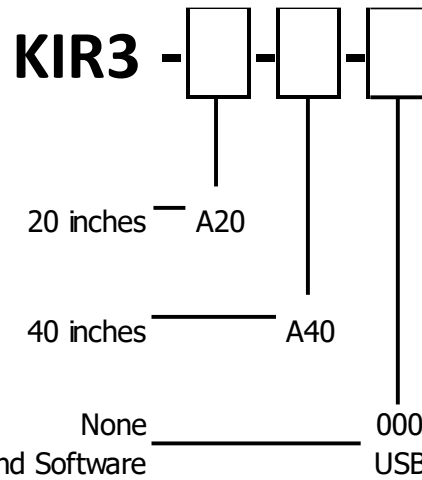


PART NUMBER CONFIGURATOR

Sensor to Electronics

Electronics to Flying Leads

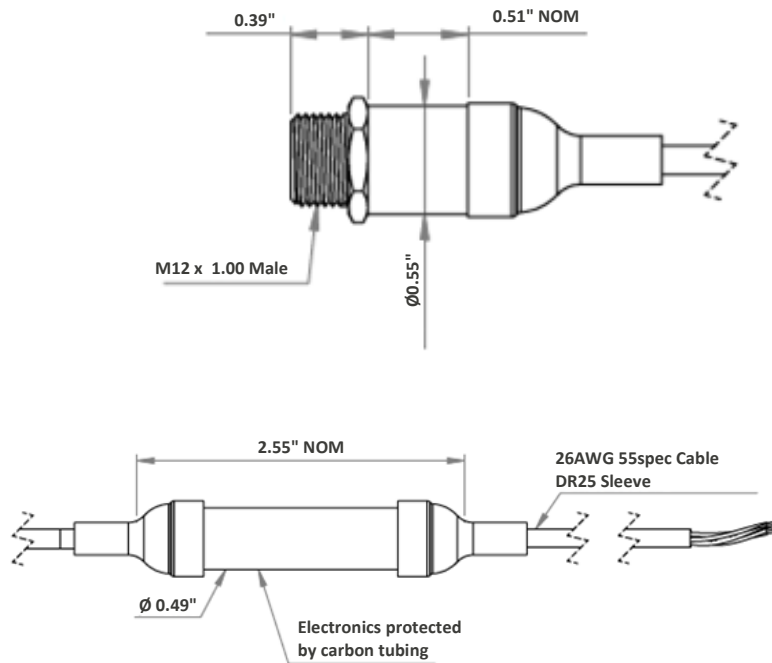
Special Codes



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

MECHANICAL DETAILS

Dimensions in inches



ELECTRICAL DETAILS

	+Ve Supply	0V Supply	Output	Comms
Sensor	Red	Black	White	Green
USB Cable	White	Brown	Yellow	Green

*Sense
Analyze
Control*

Sensors For:

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

Services For:

- Data Logging
- Telemetry
- Controls
- Wiring

Contact Us

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