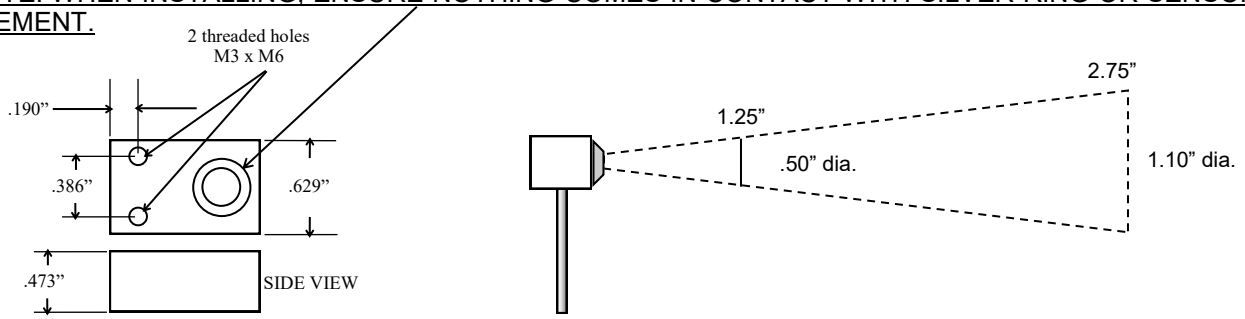
INFRARED TEMPERATURE SENSOR
#810-SN-IR-T-200

The Racepak IR Temperature Sensors are a rugged, high quality, extremely accurate infrared sensor. The service you get from these sensors are largely dependent on the thought you put into mounting them, and the care they are given when in service. In order to insure that they perform to your expectation please read and follow the instructions below.

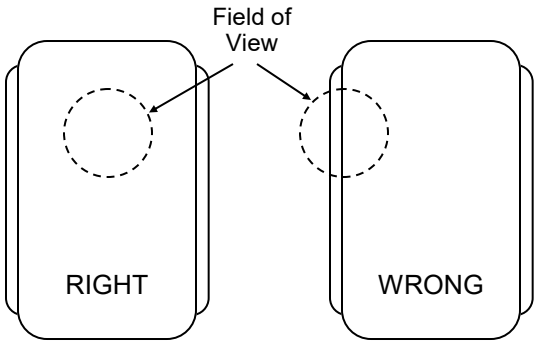
INSTALLATION

The size of the area you wish to monitor will dictate how far the sensor should be installed from the surface you are monitoring. The sensor emits a 2.5:1 ratio cone shaped beam or field of view. That means that the further away the sensor is from the surface, the larger the area it will monitor. If the lens of the sensor is 2.00" away from the tire, the focal point will the .800" in diameter.

NOTE: WHEN INSTALLING, ENSURE NOTHING COMES IN CONTACT WITH SILVER RING OR SENSOR ELEMENT.



It is also important that the field of view is aimed directly upon the surface it will be monitoring and does not overlap off of the edge. If the focal beam is allowed to overlap the readings will not be accurate. The drawing below (using tire temperatures as an example) will illustrate this point.



MAINTENANCE

The 810-SN-IR-T-200 Temperature Sensor is designed to operate in ambient temperatures from 32°F to 392° F (0°C to 200°C). Care should be taken to avoid using the sensor in temperatures above and below this range. Smoke, fumes, dust, and other contaminants can coat the lens and cause erroneous temperature reading. Keep the lens clean at all times. Blow off loose particles with clean compressed air, then carefully wipe the surface with a moist cotton swab (water or water-based cleaner). Do not use solvents.

Range	32-392°F (0-200°C)
Field of View	15° (2.5 to 1)
Measurement Distance	1.187" to 12.75"
Accuracy	+/- 2 %

Dimensions	.790" x .629" x .473"
Weight	26g
Supply Voltage	5 volts
Output Voltage	1 volts = 77°F (25°C) 4.5 volts = 392°F (200°C)