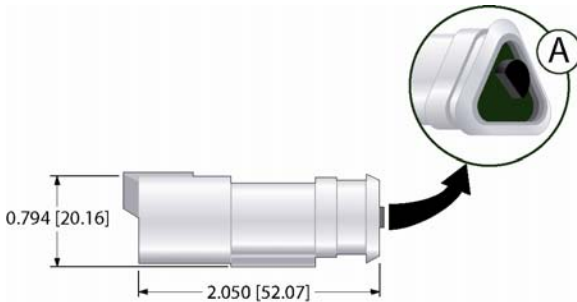


## Analog Temperature Sensor P/N 115722 One-Page Manual

### OVERVIEW

The Analog Temperature Sensor is a compact, waterproof module that converts ambient temperature (-40°F [-40°C] to +257°F [+125°C]) to an analog voltage (+174mV to +1205mV) for use with various Class 1 ES-Key modules.

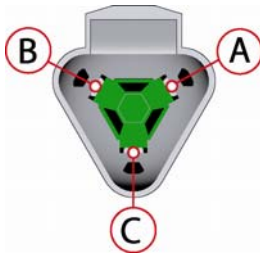


Dimension in inches [millimeters].

The Analog Temperature Sensor is housed in a standard Deutsch 3-pin plug and protrudes slightly from the potted end (inset A).

### WIRING

The Analog Temperature Sensor has a single 3-pin Deutsch connector.

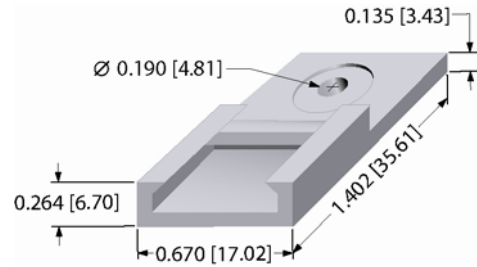


Mating connector: Deutsch DT06-3S  
Terminals: Deutsch 0462-201-16141  
Recommended wire gage: 14 – 18 AWG

PIN	DESCRIPTION	DIRECTION
A	POWER (+2.7VDC...+10VDC)	INPUT
B	GROUND (system ground)	INPUT
C	SIGNAL (+174mV...+1205mV)	OUTPUT

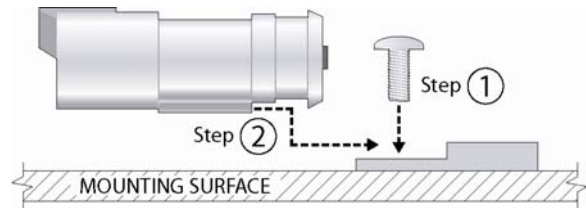
### MOUNTING

The Analog Temperature Sensor can be secured to a surface with Deutsch mounting clip (p/n 1011-026-0205).



Dimension in inches [millimeters].

1. Attach the Deutsch mounting clip to the mounting surface with a #8 or #10 screw.
2. Secure the Analog Temperature Sensor by sliding into the mounting clip.



### SPECIFICATIONS

Accuracy

@ 77°F [25°C]	± 5.4°F [3.0°C] (max)
-40°F [-40°C] to +257°F [+125°C]	± 7.2°F [4.0°C] (max)

Temperature slope + 6.25mV/°C

Input Voltage +2.7VDC to +10VDC

Current drain @ 77°F [25°C] 110µA (max)

Nonlinearity ± 1.5°F [0.8°C] (max)

Output range (signal) +174mV to +1205mV

### SIGNAL OUTPUT VOLTAGE DEFINITION

$$V_{out} = (T_{slope} \times T_c) + V_{offset}$$

$$T_{slope} = +6.25\text{mV}/^{\circ}\text{C}$$

$$T_c = \text{Temperature in degrees Celsius}$$

$$V_{offset} = +424\text{mV}$$

