

Typical Applications

- Structural Health Monitoring (Bridges, Buildings, Airplanes, Cranes, Platforms, Machinery, etc.)

Features & Benefits

- **Long lifetime** (minimum expected life without battery replacement 10 years)
- **Lightweight**, about 147 gr
 - Wireless transmitter: 120 gr
 - Cable (1ft): 10 gr
 - Strain sensing element: 17 gr
- **Easy mounting**
 - Self-adhesive, no drilling is required (e.g. steel)
 - Flange-mount, drilling is required (e.g. concrete)
- **Quick installation**, 1-2 minutes
- **Accurate**: 1- μ Strain resolution
- **Full range**: ± 4000 μ Strain
- **Wide working temperature**: -40 to +150°F (-40 to +65°C)
- **Long communication range**: 1.0km free space
- **Small size**:
 - Wireless transmitter: 1.96" x 1.96" x 1.34"
 - Displacement sensor: 4.30" x 1.30" x 0.35"
- **Complementary sensing**: temperature, acceleration, battery voltage, etc.
- **Ingress Protection**: IP65, weatherproof and protected against rain, snow, and UV exposure
- **Sensing probe options**: Full bridge, half bridge, rosette strain gauge (both steel and concrete)



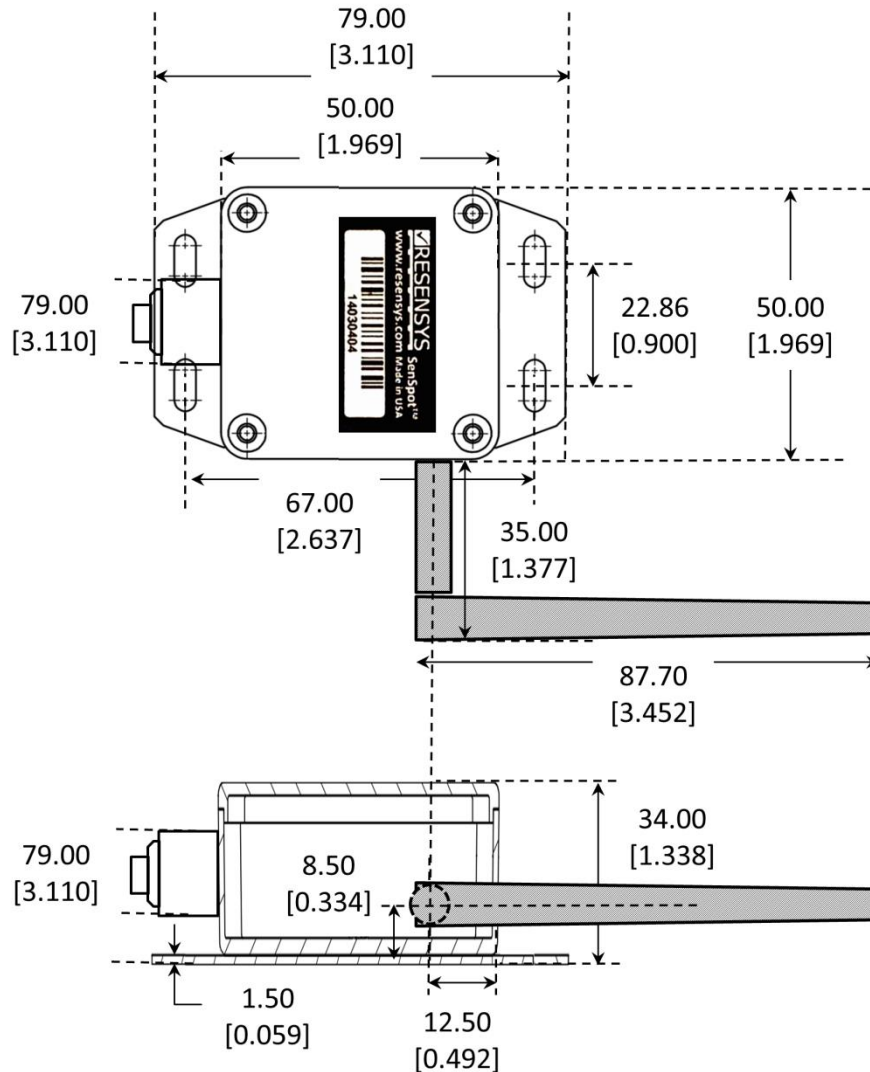
Description

SenSpot™ provides an easy to install, scalable solution for distributed structural integrity monitoring. SenSpot™ strain gauge uses Resensys's accurate measurement, large-scale sensing, wireless synchronization, and ultra-energy efficient wireless communication.

SenSpot™ is designed to operate maintenance-free for more than a decade. SenSpot™ does not need calibration, battery replacement, or other maintenance after installation. Due to small size and lightweight, adhesive-mount SenSpot™ sensors can be applied easily to as many critical spots on a structure as needed, with minimal installation effort.

SenSpot™ - Wireless Transmitter

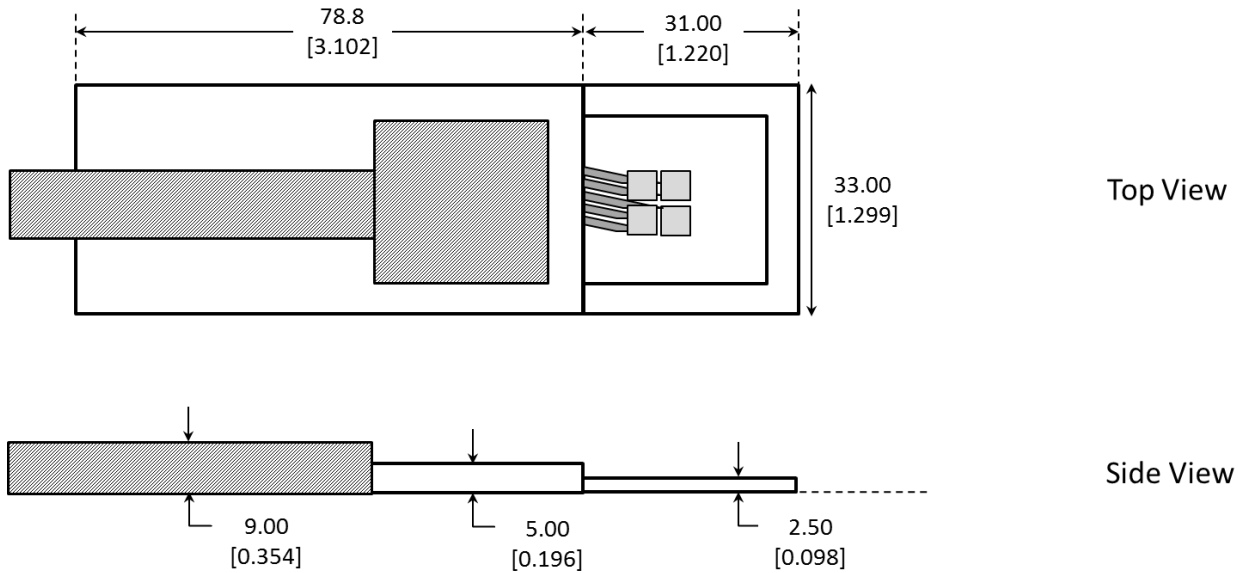
Wireless transmitter is universal and it reads the analog measurement from the sensing element and transmits the digitized data wirelessly to SeniMax. These units come in either self-adhesive or flange-mount form factors.



All dimensions are in mm [inch].

Strain Gauge Sensing Element

The strain gauge sensing element outputs the strain analog signal on its cable after it gets the excitation signal from the wireless transmitter part. This sensor is self-adhesive and it is meant to be used on steel structures.



All dimensions are in mm [inch].