STRAINSENSE
MAKING SENSE WITH SENSORS

Sensors Overview

# DRAW-WIRE AND STRING POTENTIOMETERS

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strainsense.co.uk

# Company Overview

## About Strainsense

Established in 2002 and based in Milton Keynes. We focus on providing Sensor and Data Acquisition solutions in various markets not limited to Automotive/Autosport, Crash, Military, Aerospace and Research facilities.

All of us, Internal Engineers, Product Specialists & External Sales focus our time providing application solutions using various sensing technologies within our extensive portfolio. Uniquely we can provide custom products, solutions and systems.

In 2024, launched **Strainsense.store** to provide fast deliveries of standard stocked product.

**Accredited ISO9001:2015 & ISO14001:2015**

Full compliance Conflict Minerals, Reach, RoHS, Anti-Slavery, Anti-Bribery, Ethics & Standards.

## Sensors and Data Acquisition

| | |
|---|---|
| **Pressure** | PCB Mount, Industrial, Precision, High Temperature, Miniature/Dynamic |
| **Force/Torque** | Pancake, S-Beam, Low Profile, Anuular, Multi-Axis, Custom Solutions |
| **Position** | Linear & Rotary, LVDT, Inclinometers, String Pots, Ultrasonic |
| **Vibration** | AC/DC, Industrial & Servo Accelerometers, Signal Conditioning, Cables & Mounting |
| **Strain** | Specialise in High Temperature & Encapsulated |
| **Inertial** | Gyros, IMUs, INS/GPS, GNSS, Fibre Optic Gyro, Ring Laser Gyro |
| **Current** | Zero Flux & Rogowski Coils, AC & DC Coupled |
| **Data Acquisition** | Mobile, Test Rigs & Analysis Software, Power Analyzers |

*Solutions to integrate all the above with signal conditioning, displays, cables & amplifiers.*

# String Potentiometers

**Strainsense offer String potentiometers from the smallest in the world to 50 Metres range and can customise the design if required.**

## Industrial, Amplified and Long-Range String Potentiometers

- Rugged all-aluminium body
- Ranges from 0-50mm to 0-50 metres
- Potentiometric, amplified, or encoder output
- IP67 Protection
- Additional protection, extensions, dust wiper and more
- Repair and re-calibration service

**Stocked on strainsense.store**

## Research, Development and Precision

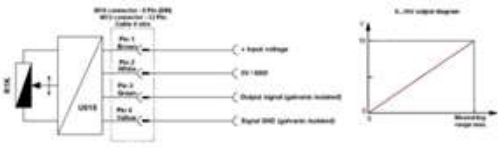
- Smallest sized draw wire sensor in the world
- Ranges from 0-38mm to 0-1080mm
- Wide temperature range -65°C to +125°C
- High-Accuracy Potentiometric output
- RoundaboutTM draw-wire exit
- Range of recoil tensions

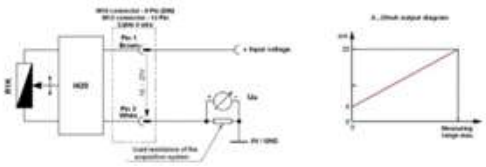
# Industrial and Amplified Draw-Wire Sensors

**Industrial Draw-Wire sensors made in Europe by AK Industries with a huge array of options on short lead-times. Competitively priced with a range of outputs to suit your needs, our range is used in a wide variety of applications.**

## Measurement Lengths

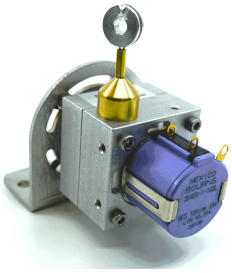
0-50mm to 0-50000mm

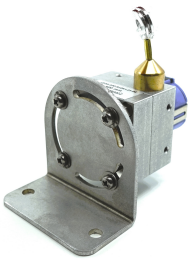




## Outputs

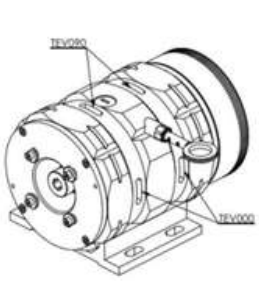
- Potentiometric
- Voltage (0-10V/0-5V) or Current (4-20mA)
- Encoder with many protocol options
- Gauge Bridge output





## Configurable options

- Measurement Length and draw-wire extensions
- IP Protection rating (IP54 to IP67)
- Connector type or signal cable length
- Dust wiper to prevent debris inside
- Water evacuation holes in cable drum
- Additional output (e.g. both encoder and analogue)
- Fixings, size, tension and materials customisation
- Custom OEM options available

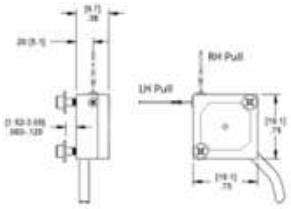


# Miniature Precision Draw-Wire Sensors

**Featuring the smallest String-Potentiometer in the world (150) and the unique Roundabout wire exit available on the 160. Manufactured in the USA by Firstmark Sensors, previously Space Age Controls with a short lead-time. Low-temperature options to -65°C.**

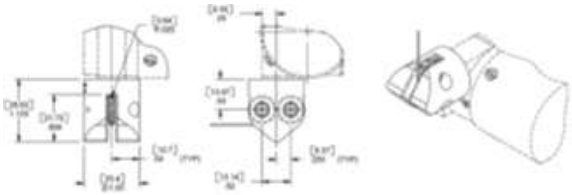
## 150 Series

- Smallest Draw-wire sensor in the world
- User serviceable with installation kit
- 35mm measuring range



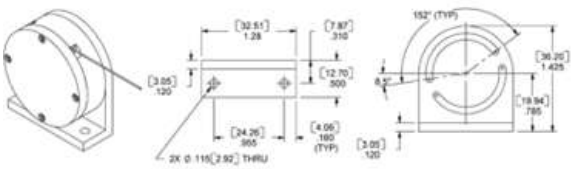

## 160 Series

- Rugged design with precision output
- Roundabout option available
- Up to 1080mm measuring range
- Range of mountings available



## 170 Series

- Compact Sensor body
- User serviceable
- Range of optional brackets available
- Ranges 0-50mm to 0-165mm



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## Thank you.

Contact us today for the latest sensor technology.

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