

E9 DRAW-WIRE SENSOR



Description

The Draw-wire sensor, also referred to as wire crack meter and wire extensometer allows for monitoring the changes in the distance between the Draw-wire Sensor and an anchor point.

The compact Draw-wire sensor is designed for large displacements when monitoring cracks, rock masses, earth faults and landslides.

Features

- Suitable for long-term monitoring
- Suitable for manual or remote monitoring
- Rugged design

Benefits

- Accurate, repeatable readings over long cable lengths
- Long working life, long-term stability and reliability
- Connecting cable is strong, screened and flexible
- Ideal for installations in harsh environments



Comprehensive information about this product and our full range is available at soilinstruments.com
If you would like to speak with someone directly please call +44 (0)1825 765044 or email sales@soilinstruments.com

Operation

By setting the wire to mid-range the sensor can monitor both extension or convergence of the anchor position.

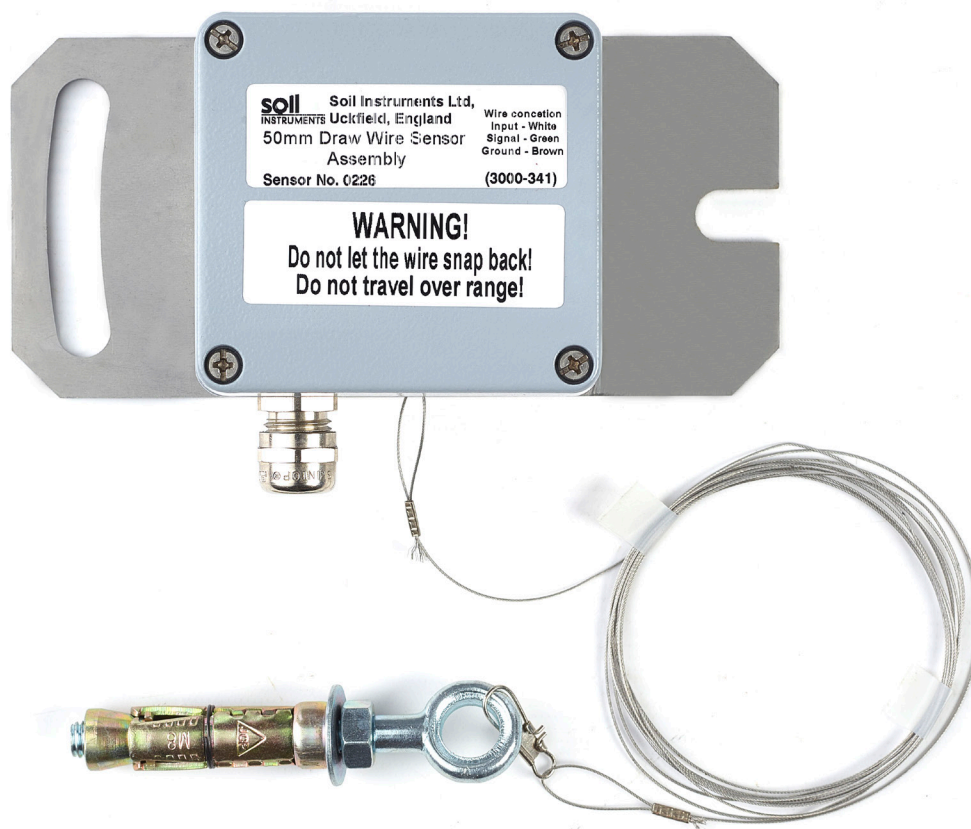
The distance between the anchor and the sensor can be up to 30 m and the connection is made by stainless steel wire configurable on-site. Changes in the distance between the sensor and the anchor are measured by the sensor.

Applications

The compact Draw-wire measures displacements between two positions in structures, rock masses and ground surfaces.

Typical applications include:

- Landslides
- Earth faults
- Rock mass monitoring



Associated products

For details on:

Catalogue code:

Terminal and Junction Boxes

RO-TB/JB/TJ

Dataloggers

D1

View our full product range on soilinstruments.com

THE TECHNICAL RATING FOR THIS PRODUCT:

INTERMEDIATE



As the correct installation of any monitoring sensor or system is vital to maximise performance and accuracy, Soil Instruments makes the following recommendations, for the skill level of the installation contractor.

ADDITIONAL SUPPORT

We offer installation and monitoring services to support this system. For more information please email : sales@soilinstruments.com or call : **+44 (0) 1825 765044**

ADVANCED



The installer is trained and experienced in the installation of this type of instrument or systems, and is ideally a specialist Instrumentation and Monitoring contractor.

INTERMEDIATE



The installer already has previous experience and/or training in the installation of this instrument or system.

BASIC



As a minimum the installer has read and fully comprehends the manual, and if possible has observed these instruments or systems being installed by others.

Specifications

Draw Wire sensor

Type	4-20mA(2 wire)/0-10VDC			
Range mm	120	317	635	1270
Accuracy +/- % Full Scale	1		0.25	
Resolution	Essentially Infinite			
Repeatability +/- % Full Scale	0.05			
Input Voltage	4-20mA = 8-40VDC 0-10VDC = 12-32VDC			
Operating Temperature °C	-40 to +70			
Measuring wire tension N +/-25%	3.2	3.7	3.2	3.2
Ingress Protection	IP67			

Cable

Construction	4 core, PUR sheath, foil screen & drain wire			
Diameter	4mm			
Weight/m	30g			

Anchors

Type	Expansion Eye Bolt	Threaded Eye Bolt
Material	Stainless Steel	Stainless Steel
Hole size	10mm	M6 threaded

Connecting wire

Material	Stainless Steel
Diameter	0.54mm

Ordering Information

Compact Draw Wire Sensors

E9-120-MAV	120mm range 4-20mA (2 Wire)/0-10VDC
E9-317-MAV	317mm range 4-20mA (2 Wire)/0-10VDC
E9-635-MAV	635mm range 4-20mA (2 Wire)/0-10VDC
E9-1270-MAV	1270mm range 4-20mA (2 Wire)/0-10VDC

Cable

CA-3.1-4-IC	Instrument cable, 4 core, 7/0.2, screened, polyurethane jacket; priced per metre
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Accessories

E8-316-54	316 Stainless Steel extension wire 0.54mm diameter
E8-W-CR	Wire crimps
E8-EX-EYE	Expanding Eye Bolt fixing
E8-M6-EYE	Threaded Eye Bolt M6

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