

[OESEN-STR-100, 200, 300, 400, 500, 600]

Fibre Bragg Grating Strain Sensors

Applications:

- Bridges and highway
- Big buildings
- Dams
- Petroleum plants and pipelines
- Oil fields
- Electrical transformers
- Aerospace industry
- Biomedical
- Environment

Product description:

A new, low cost fibre grating strain sensor is now available at **O/E LAND INC**. Based on our new design, this new fibre grating strain sensor can be widely used in construction, bridge, aerospace, electrical, petrochemical, biomedical, nuclear and other industry applications.

The fiber cable can be packaged with armoured cable (or other type of cables) to protect from damage in harsh environments, like rust, shock, corrosion, vibration, and sharp mechanical objects. **OESEN-STR-100, 200, 300, 400, 500, 600** can also be used with welding base to have a long term life time.

Surface Mount Strain Sensor with Model number: OESEN-STR-100



Figure 1: Fiber Bragg Grating Strain Sensor for Surface Mount



Specifications of OESEN-STR-100:

Parameter	Unit	Value
Range	μStrain	±1000
Resolution	μStrain	1
Working Temperature	°C	-50 - +80
Size (Length x width x height)	mm	70 x 18 x 11

Small Form Surface Mount Strain Sensor with Model number: OESEN-STR-200

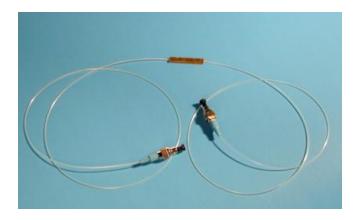
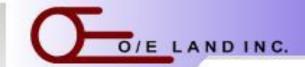


Figure 2: FBG Strain Sensor with small form surface mount

Specifications of OESEN-STR-200:

Parameter	Unit	Value
Range	μStrain	±1000 (larger strain range available)
Resolution	μStrain	1
Working Temperature	°C	-50 - +80
Size (Length x width x height)	mm	6 x 40 x 4



High profile Surface Mount Strain Sensor with Model number OESEN-STR-300:

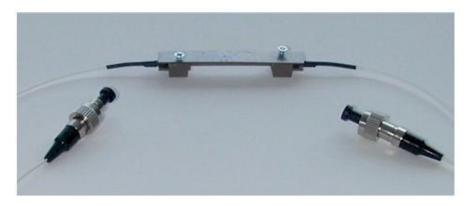


Figure 3: FBG Strain Sensor with high profile surface moun

Specifications of OESEN-STR-300:

Parameter	Unit	Value
Range	μStrain	±1000 (larger strain range available)
Resolution	μStrain	1
Working Temperature	°C	-50 - +80
Size (Length x width x height)	mm	8 x 54 x 7

Embedded Mount Strain Sensor with Model number: OESEN-STR-400:



Figure 4: FBG Strain Sensor with embedded mount



Specifications of OESEN-STR-400:

Parameter	Unit	Value
Range	μStrain	±1000 (larger strain range available)
Resolution	μStrain	1
Working Temperature	°C	-50 - +80
Size (diameter x height)	mm	18 x 100

Long Strain Range Strain Sensor with Model number: OESEN-STR-500



Figure 5: FBG Long Range Strain Sensor

Specifications of OESEN-STR-500:

Parameter	Unit	Value
Range	μStrain	±1000 (larger strain range available)
Size (Length x width x height)	mm	150 x 20 x 12
Working Temperature	°C	-50 - +80
Mounting distance	mm	40



Temperature Compensated Strain Sensor with Model number: OESEN-STR-600

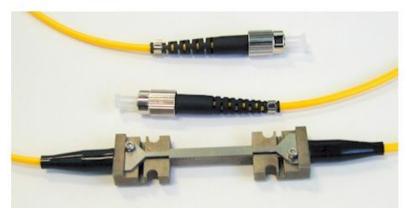


Figure 6: Temperature Compensated Fibre Bragg Grating Strain Sensor

Specifications of OESEN-STR-600:

Parameter	Unit	Value
Range	μStrain	±1000
Resolution	μStrain	1
Working Temperature	°C	-10 - +70
Size (diameter x height)	mm	70 x 20 x 12

Fibre Bragg grating temperature sensors with any wavelength can be delivered in a short time. Low cost product, quick delivery time, high reliability and good performance are our products' main features.

Note: All specifications are subject to change without notice

Please feel free to contact us at (514) 334-4588 or at sales@o-eland.com for more information on this product.