



### **Overview**

GeoSIG's breva is a biaxial tiltmeter featuring a high resolution and a shock resistant-sensor with long term stability. It measures the angle, slope, or tilt in two orthogonal directions for use in various applications.

## **Applications**

- Structural Health and Response Monitoring
- Geotechnical (slope stability)
- Platform / Rig / Track alignment

### **Specifications**

#### Sensor Element

Measuring range:  $\pm$  3  $^{\circ}$ < 0.001° /√Hz Resolution (at O°, +20° C):

μg/√Hz

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< 0.01° (mg) Repeatability (at O°, +20° C): 0.0004 ° Noise:

Measuring direction: X and Y Axes 4 %

Cross axis sensitivity: Damping: 18 Hz Shock resistance: 20'000 g Output signal: ±10 V Offset =  $V_{out}$  in  $0^{\circ}$ : Temperature dependancy: < 0.003 °/°C

**Power** 

DC power supply: 9.7 - 15 VDC, protected by OVP

# **Key Features**

- Measures static and dynamic tilt
- Senses in positive and negative directions
- Large output span of 10V to + 10V output over the measuring range
- Shock resistance more than 20'000 g
- High repeatability < 0.01% over range
- ▶ High resolution < 0.001% over range</p>
- Built-in three-point leveling screws for easy installation

### **Environment / Housing**

Housing type:

Housing size: Index of protection: Operational temperature: Storage temperature:

Humidity: Orientation: Mounting:

Cast aluminium, sealed access cover 195 x 112 x 95 mm IP65 optional IP68

- 30 °C to + 85 °C

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0 % to 100 % (non-condensing) Floor mounted

Single bolt, surface mount, adjustable within  $\pm$  3  $^{\circ}$ 







