



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: $\pm 3^{\circ}$ Resolution (at 0°, +20° C): $\pm 3^{\circ}$

μg/√Hz

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Repeatability (at 0°, +20° C): < 0.01° (mg)
Noise: 0.0004°

Measuring direction: X and Y Axes
Cross axis sensitivity: 4 %

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

Power

DC power supply: 7 - 30 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
- 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 - 30 °C to + 85 °C

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

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

