GeoSIG
swiss made to measure

DATA SHEET

breva

Biaxial Tiltmeter

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

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 resolution < 0.005% over range
- High repeatability < 0.01% over range
- Built-in three-point leveling screws for easy installation

Specifications

Sensor Element

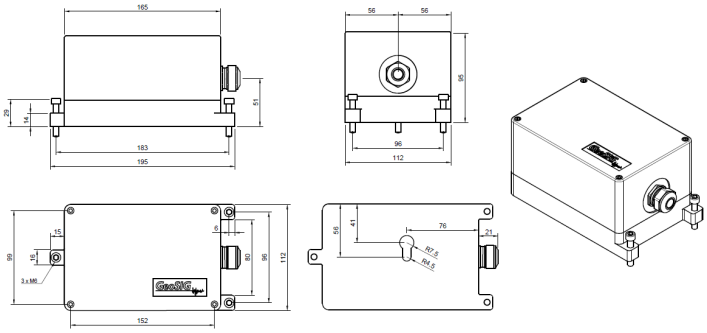
Measuring range:	± 3 °
Resolution:	< 0.005 °
Repeatability at 0°:	< 0.01 °
Noise:	0.0004 °
Measuring direction:	X and Y Axes
Cross axis sensitivity:	4 %
Damping:	18 Hz
Shock resistance:	20'000 g
Output signal:	±10 V
Offset = V_{out} in 0°:	0 V
Temperature dependancy:	< 0.003 °/°C

Power

DC power supply:	7 - 30 VDC, protected by OVP

Environment / Housing

Housing type:	Cast aluminium, sealed access cover
Housing size:	195 x 112 x 95 mm
Index of protection:	IP65 optional IP68
Operational temperature:	- 30 °C to + 85 °C
Storage temperature:	- 30 °C to + 85 °C
Humidity:	0 % to 100 % (non-condensing)
Orientation:	Floor mounted
Mounting:	Single bolt, surface mount, adjustable within ± 3 °



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