

Datasheet

6D – Sensor

The patented high-tech sensor for digital long-term monitoring of complex movements. The SuessCo 6D-Sensor precisely captures absolute position changes and rotations between two objects. It measures the three spatial axes (X, Y, Z), the corresponding rotational values (3 Euler angles), and temperature data. All data is digitally recorded and wirelessly transmitted to a monitoring platform with an integrated alarm function



Applications:

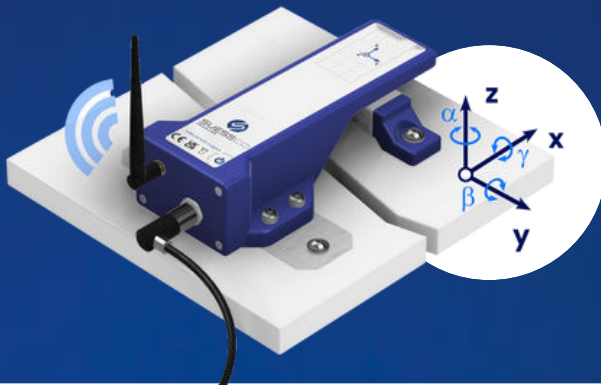
- Monitoring of bridges and tunnels
- Monitoring of infrastructure and buildings
- Movements or settlements on industrial sites
- Long-term monitoring in complex environments

Key Features:

- One sensor monitors all 3 axes (X,Y,Z) and rotation values (α, β, γ)
- High accuracy and no drift
- Integrated temperature sensor
- Monitoring platform with alarm
- External power supply
- External antenna

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Dimensions	Key Values	Data Acquisition
Sensor: 170 mm x 100 mm x 51 mm Weight incl. plate: 418g Cable: 2m	Measurement range: X-Axis: 60 mm Y-Axis: 30 mm Z-Axis: 20 mm Temperature: -20 °C to +54 °C	Battery life: Up to 10 years with hourly measurement (adjustable measuring interval), Mains power supply or DC 24V possible
Reference object: 26 mm x 118 mm x 26 mm Weight: 75g	Repeatable accuracy: Axes X,Y,Z: $\pm 50 \mu\text{m}$ Angles α, β, γ : $\pm 0,1^\circ$ Temperature: $\pm 0,5^\circ\text{C}$	Data transmission and storage: LTE-M, Wi-Fi, Monitoring-platform

Reference Bridge Application



Reference Crack Application

