TE Connectivity’s (TE) tilt sensors and inclinometers offer accurate measurement of inclination, angle and tilt in various applications.

**TI T OVER/AUTO LEVELING SAFETY SYSTEMS**
- Crane/boom industry to implement auto-leveling features
- Compliance with Standard EN13849 by 2019
- TE’s sensors deployed for similar applications

**TILT SENSORS MEASURE VARIOUS ANGLES ON CRANES AND BOOMS TO PREVENT TIPPING**
- Outrigger left/right side level (base stability)
- Measure crane/boom angle or extension (safety limit)
- Measure additional crane/boom angle or extension (limit)

**BENEFITS**
- Crane and telehandlers chassis (safety)
- Hill driving detection for vehicle chassis (fuel economy for transmissions and engines)
- Hill driving for construction equipment (safety)
- Outrigger base stability (safety)

QUESTIONS?
- How can TE support your safety initiatives?
- What do you expect from TE in regards to future safety regulations?
- Do you require improved safety?
- Do you currently measure chassis angle / and how?
- Do you have a need for a sensor that determines the tilt angle of the chassis or platform?
- Do you need to know the tilt while the vehicle is in motion?
- Do you need to know one or two axis of the chassis tilt?
The DOG2 MEMS-Series inclinometer dual axis is mainly developed with focus on platform leveling, dynamic engine management, tip-over protection and tilt alarm.

A fast response time and good accuracy makes this device a suitable choice for mobile leveling applications. It features digital signal processing including temperature compensation.

**OVERVIEW**

- **Range:** ± 25°, ± 90°, ± 45° or ± 180° (customization possible)
- **Accuracy (incl. non-linearity, offsets and temperature):** Better than 0.15° (at 25 °C); better than 0.5° (at -40 to 85 °C)
  - Analog: Voltage 0.5 - 4.5 V, Current 4 - 20 mA
  - Digital: PWM, CAN J1939, CANopen, USB, RS485 (optional)
- **Supply Voltage:** 8 - 30 VDC, 5 VDC or USB powered

**THE SINGLE/DUAL AXIS INCLINOMETER**

Developed with focus on:

- Platform leveling
- Tip over protection
- Tilt alarm

**BENEFITS**

- Crane and telehandlers chassis (safety)
- Hill driving detection for vehicle chassis (fuel economy for transmissions and engines)
- Hill driving for construction equipment (safety)
- Outrigger base stability (safety)