



# TILT SENSORS & INCLINOMETERS FOR SAFETY SYSTEMS

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

## TIP OVER/AUTO LEVELING SAFETY SYSTEMS

- Crane/boom industry to implement auto-leveling features
- 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)

## DESIGN 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?

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# AXISENSE TILT SENSORS

## AXISENSE-1 Single Axis Tilt Sensor



Product	Range	Accuracy	Resolution	Operating Temperature	Connector	Weight	Size [mm]	Typical Applications
<a href="#">G-NSDOG1-006</a>	±180	±0.5°	0.01°	-40 to +85°C	AMP Superseal 1.5, 3-pos	60 g	70.5 x 45 x 15	Agriculture, construction, aerial work platforms
<a href="#">G-NSDOG1-022</a>	±180	±0.5°	0.01°	-40 to +85°C	Standard USB Plug Type A	115 g	70.5 x 45 x 15	Test and measurement

## AXISENSE-2 Dual Axis Tilt Sensor



Product	Range	Accuracy	Resolution	Operating Temperature	Connector	Weight	Size [mm]	Typical Applications
<a href="#">G-NSDOG2-001</a>	±25	±0.5°	0.01°	-40 to +85°C	AMP Superseal 1.5, 4-pos	60 g	70.5 x 45 x 15	Agriculture, construction, aerial work platforms
<a href="#">G-NSDOG2-002</a>	±45	±0.5°	0.01°	-40 to +85°C	AMP Superseal 1.5, 4-pos	60 g	70.5 x 45 x 15	Agriculture, construction, aerial work platforms
<a href="#">G-NSDOG2-003</a>	±90	±0.5°	0.01°	-40 to +85°C	AMP Superseal 1.5, 4-pos	60 g	70.5 x 45 x 15	Agriculture, construction, aerial work platforms
<a href="#">G-NSDOG2-200</a>	±90	±0.5°	0.01°	-40 to +85°C	AMP Superseal 1.5, 4-pos	60 g	70.5 x 45 x 15	Agriculture, construction, aerial work platforms
<a href="#">G-NSDOG2-201</a>	±90	±0.5°	0.01°	-40 to +85°C	AMP Superseal 1.5, 4-pos	60 g	70.5 x 45 x 15	Agriculture, construction, aerial work platforms
<a href="#">G-NSDOG2-021</a>	±90	±0.5°	0.01°	-40 to +85°C	Standard USB Plug Type A	115 g	70.5 x 45 x 15	Test and measurement

## AXISENSE-G Dynamic Tilt Sensor



Product	Range	Static accuracy	Dynamic accuracy	Resolution	Operating Temperature	Connector	Weight	Size [mm]	Typical Applications
<a href="#">G-NSDOG2-700</a>	±75	±0.5°	±1.5°	0.01°	-40 to +85°C	AMP Superseal 1.5, 4-pos	60 g	70.5 x 45 x 15	Agriculture, construction, aerial work platforms