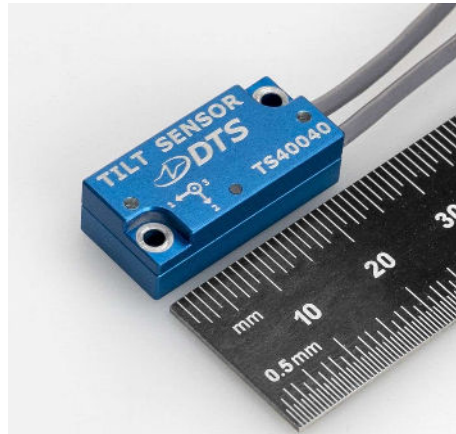


APPLICATIONS

- ATDs/Crash Test Dummies
- Vehicle Crash & Sled Test
- Biomechanics
- Model Validation

Tilt Sensor 4.0

Compact, Flexible, and Accurate Solution for ATD Positioning



Tilt Sensor 4.0 is small, accurate, and easily integrates with SLICE6 in-dummy DAS solutions. It offers real-time ATD positioning feedback, plus stored tilt values.

The Tilt Sensor 4.0 is designed for ATD positioning in crash and dynamic testing. It features a high-stability 3-axis accelerometer for reliable, accurate tilt measurement in any orientation. It seamlessly integrates with DTS SLICE6 in-dummy systems, and the chainable architecture supports multiple tilt or other sensor connections. The Tilt Control Software enables real-time ATD positioning feedback, while DTS DataPRO Software reads and stores tilt values as part of the 'Arm Checklist' feature.



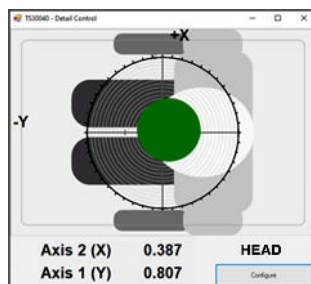
Dual-cable connections and available extension cables make installation of multiple Tilt 4.0 sensors easy.

Features

- Works with all ATD/Crash Test Dummy models
- High-performance accuracy and repeatability
- Real-time ATD positioning feedback via Tilt Control Software, plus accurate storage of ATD positioning at SETUP, ARM, and POST-test via DataPRO Software
- Designed to mount in any orientation
- Up to two chains of 6 sensors can be connected to the accessory port of the SLICE6 Distributor
- Durable aluminum housing; 500 g shock-rated

Specifications

MECHANICAL / ENVIRONMENTAL	
Dimensions:	25.0 x 12.0 x 8.0 mm (0.99 x 0.47 x 0.31 in.)
Mass:	7 grams plus cables
Enclosure:	Aluminum
Mounting:	M2 bolt pattern compatible with IES Tilt Sensor
Shock Rating:	500 g peak, 3 msec half sine
Temperature:	0-60°C (32-140°F)
IP Rating:	IP51
ESD Protection:	8kV contact, 15kV air discharge
ELECTRICAL INTERFACE	
Type:	Serial Data Interface, Chainable
Power:	3,3V @ <1 mA
Connectors:	Omnetics 7-pin, one male, one female
Compatibility:	SLICE6 Distributor
PERFORMANCE	
Measurement Range:	Three-Axis, ±90 degrees
Accuracy:	±0.05 degrees
Repeatability:	±0.01 degrees
Calibration:	ISO17025 Accredited Factory Calibration



Tilt Control Software is intuitive and provides clear visual feedback for ATD positioning during test setup.

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The SLICE6 Distributor supports the complete system solution. Shown with the Tilt Sensor 4.0, the Temperature Sensor, and the optional Real Time Clock Module.

