

Schaevitz® T640 Series

DC-Operated Tilt Sensor with
unfiltered and low pass filter outputs

Features

- Ranges $\pm 30^\circ$, $\pm 60^\circ$ & $\pm 90^\circ$
- Essentially zero temperature coefficient of damping ratio
- Filtered and unfiltered outputs simultaneously available
- Integral temperature compensation
- DC input - DC output
- Signal ground isolated from power ground
- High reliability



Introduction

The Schaevitz range of range of Solid State Tilt Sensors manufactured by Sherborne Sensors measure angle with high accuracy using a micromachined (MEMS) silicon sensor incorporating an air damping feature. Unlike fluid damped devices the air damping employed is essentially independent of temperature. The transducer also incorporates positive mechanical stops conferring excellent shock resistance.

The Tilt Sensor is compensated for the effects of temperature on both sensitivity and zero.

Typical applications include data acquisition systems, road bed analysis, platform levelling, structural monitoring, pipeline levelling, ship ballast transfer systems and many other applications requiring precision tilt measurement.

In addition to the instruments offered in this bulletin Sherborne Sensors design and develop Tilt Sensors for specific applications. These custom designed units can be manufactured and tested to conform to customers specific requirements.

