

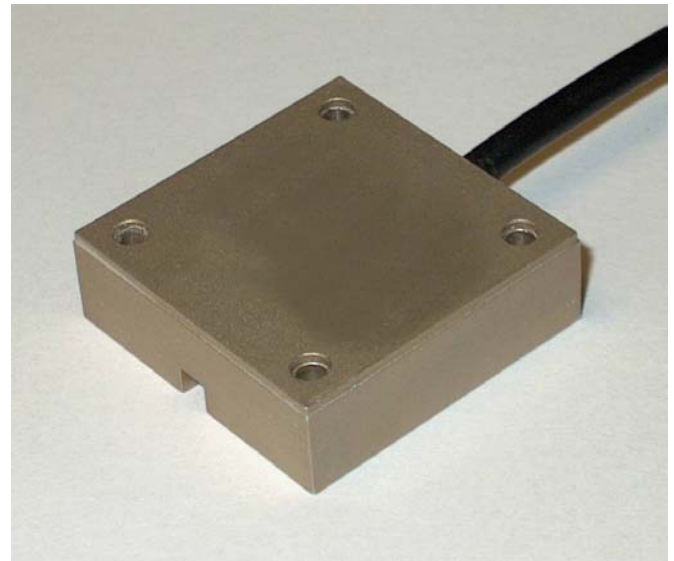
Schaevitz® T700 Series

DC-Operated,
Single and Dual Axis Inclinometer

Introduction

The Sherborne Sensors' T700 range of Solid State Inclinometers measure inclination proportional to sine of angle in one axis (T710) or two axes mutually at right angles (T720). The inclinometer utilises MEM technology and has mechanical stops giving excellent shock resistance. The unit is compensated for the effects of temperature on both sensitivity and zero.

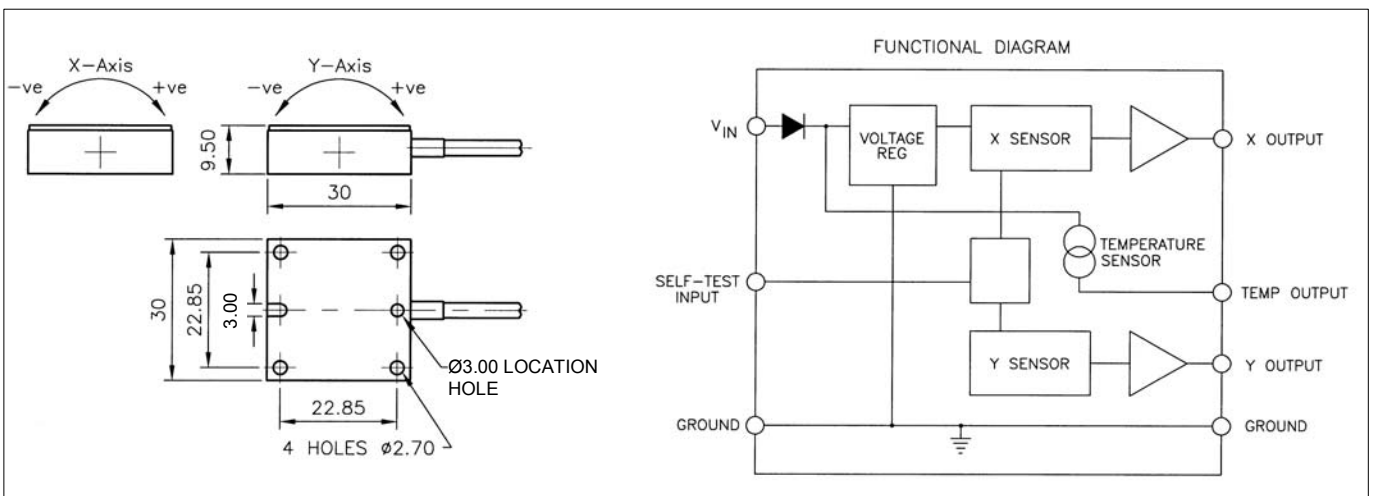
Designed for operation from an unregulated DC power source, the T700 is packaged in a robust aluminium alloy housing with an integral shielded cable 1m long. The shield is connected to the sensor case. The T700 is fitted with a temperature sensor.



WIRE COLOUR	FUNCTION
RED	6.5 – 18 V Supply *
BLACK	Ground **
YELLOW	X-Axis output
WHITE	Y-Axis output
GREEN	Temperature output
BLUE	Self-test input

* power supply input is reverse-polarity protected

** electrical ground is isolated from the case



NB T710 : X-Axis only
T720 : X-Axis & Y-Axis

Schaevitz® T700 Series

DC-Operated,
Single and Dual Axis Inclinometer

General Specification

Full Scale Angular Range (each axis)	± 30	Degrees
Signal Output	Analog voltage	Volts
Full Scale Output	±2.000 ± 0.050	Volts
Zero Offset Voltage	2.500 ± 0.050	%FSO
Max deviation from sine function	< ± 0.5	Full Scale Output
Cross Axis Sensitivity	< ± 3%	Hz (-3db)
Band Width	10	Second
Rise Time	< 1	Seconds
Warm Up Time	< 60	Volts DC
Power Supply	+6.5 to +18	mA nom.
Current Consumption	5	300mm long
Electrical Connection	Integral cable	Grams
Weight	< 50	Degrees C
Operating Temperature Range	-20 to +60	Degrees C
Storage Temperature	-55 to +125	g (0.5mS, ½ sine)
Mechanical Shock	> 3500	MΩ @ 25 volts dc
Humidity/Immersion	IP55	Aluminium alloy
Insulation Resistance	> 100	Chromate conversion coating (Alochrome)
Housing Material		µA/Degree K
Housing finish		
Temperature Sensor AD592 Output	1	

DESIGNATION & ORDERING CODE

