

Cline Sensors

Step Response

The sensors are fluid based. The fluid stays perpendicular to the gravity vector (level) when at rest. As the housing rotates slowly the fluid will lag the rotation. See Frequency response information. The fluid does not have sticky or separation properties like mercury. The output is sensitive to other accelerations besides gravity. It will detect angular vibrations and changes in angular velocities in its sensitive axis. It is not very sensitive to motions parallel to the resultant acceleration normally gravity or in the cross axis rotation.

The sensor output will "ring" when subjected to a sharp step response. The following chart shows a step response of Cline sensors. The chart labeled "Cline Standard Sensor 20 Arc-Degree Step Response No Rib" is the output of a standard analog A1 sensor. Other standard sensors ratio R1 and digital D1 response is very close to the same. If further information is desired contact the factory.

CLINE STANDARD SENSOR

20 ARC-DEGREE STEP RESPONSE

NO RIB

