



**SX-005D-VIB / SX-015D-VIB LINEAR Tilt Sensors**

SX-015D-VIB and SX-005D-VIB are single axis LINEAR ceramics tilt sensors that provide economical and reliable single axis tilt solutions for HIGH VIBRATION applications where very good linearity, high resolution and superior symmetry are required. Constructed with a specially developed internal cavity helps restrict the movement and foaming of electrolyte during severe vibrations. Rugged construction, MIL-SPEC wide temperature range and excellent filtering ability during vibration make these sensors suitable for numerous construction, military, automotive, industrial, laser, medical, heavy machinery and robotics applications. Low profile and vertical flat reference surface facilitate simple utilization.

Specification	SX-005D-VIB	SX-015D-VIB	Comments/Units
<b>Range</b>	-5 to +5	-15 to +15	arcdeg near-linear
<b>Range</b>	-3 to +3	-12 to +12	arcdeg lin
<b>Resolution</b>	<5	<5	arcsec typical
<b>Repeatability</b>	<0.002	<0.002	arcdeg typical
<b>Linearity</b>	<1% @ 3°	<1% @ 12°	CCW & CW
<b>Linearity</b>	<0.5% @ 2°	<0.5% @ 6°	CCW & CW
<b>Linearity</b>	<0.25% @ 1°	<0.3% @ 3°	CCW & CW
<b>Symmetry</b>	<2% @ 3°	<2% @ 12°	CCW & CW
<b>Response time</b>	<100	<100	msec * #
<b>Time constant</b>	<1000 msec	<1000 msec	msec ** #
<b>Tot. settling time</b>	<2 sec	<2 sec	sec *** #
<b>Temperature</b>	-55 to +125	-55 to +125	deg C operational
<b>Temperature</b>	-55 to +125	-55 to +125	deg C storage
<b>Construction</b>	ceramic	ceramic	Hermetic
<b>Size</b>	1.500"w x 0.600h x 0.330	1.500"w x 0.600h x 0.330	

