



SX-070D-LIN / SX-030D-LIN / SX-015D-LIN LINEAR Tilt Sensors



SX-070D-LIN, SX-030D-LIN and SX-015D-LIN are single axis LINEAR ceramics based electrolytic tilt sensors provide economical and reliable single axis tilt solutions for applications where very good linearity, high resolution and superior

symmetry are required. Rugged construction and MIL-SPEC wide temperature range make these sensors suitable for numerous military, automotive, industrial, construction, wheel alignment, laser, medical, virtual reality and robotics applications. Low profile and flat reference surface facilitate simple vertical installation and utilization.

Specification	SX-070D-LIN	SX-030D-LIN	SX-015D-LIN	Comments/Units
Range	-80 to +80	-35 to +35	-18 to +18	arcdeg near-linear;
Range	-70 to +70	-30 to +30	-15 to +15	arcdeg lin;
Resolution	<10	<7	<7	arcsec typical
Repeatability	<0.02	<0.01	<0.01	arcdeg typical
Linearity	<3% @ 70°	<1% @ 30°	<0.5% @ 15°	CCW & CW
Linearity	<2% @ 45°	<0.5% @ 15°	<0.25% @ 7°	CCW & CW
Linearity	<1% @ 30°	<0.25% @ 7°	<0.2% @ 5°	CCW & CW
Symmetry	<3% @ 70°	<2% @ 30°	<2% @ 15°	CCW & CW
Response time	<40 msec	<40	<40	msec * #
Time constant	<150 msec	<150 msec	<150 msec	msec ** #
Tot. settling time	<300 msec	<300 msec	<300 msec	msec *** #
Temperature	-55 to +125	-55 to +125	-55 to +125	deg C operational
Temperature	-55 to +125	-55 to +125	-55 to +125	deg C storage
Construction	ceramic	ceramic	Ceramic	Hermetic
Size	0.750"w x 0.850h x 0.200	0.750"w x 0.850h x 0.200	0.750"w x 0.850h x 0.200	