



### SX-010D-LIN LINEAR HIGH RESOLUTION MINIATURE SENSOR

SX-010D-LIN miniature single axis LINEAR inclination sensor provides an economical and reliable tilt sensing solution for applications requiring small size, superior LINEARITY, HIGH resolution, repeatability and symmetry. Rugged hermetic construction and MIL-SPEC temperature range make it perfectly suitable for numerous mid-range high precision OEM, military, medical, optical, automotive, range finder, alignment, automation, robotics and construction angle measurement applications. Innovative design, two setscrew holes and small size facilitate uncomplicated wall mounting.

Specification	Data	Comments/units
<b>Range</b>	-11 to +11	arcdeg near-linear
<b>Range</b>	-10 to +10	arcdeg linear
<b>Repeatability</b>	< 0.005	arcdeg typical
<b>Resolution</b>	< 3	arcsec typical
<b>Symmetry</b>	< 2% @ 10 <sup>0</sup>	% CCW & CW
<b>Linearity</b>	< 0.1 @ 10 <sup>0</sup>	arcdeg CCW & CW
<b>Linearity</b>	< 0.05 @ 5 <sup>0</sup>	arcdeg CCW & CW
<b>Linearity</b>	< 0.005 @ 0.5 <sup>0</sup>	arcdeg CCW & CW
<b>Response time</b>	< 40mSec	mSec see notes*#
<b>Time constant</b>	< 150 mSec	mSec see notes**#
<b>Tot. settling time</b>	< 300 mSec	mSec see notes***#
<b>Temperature</b>	-55 to +125	deg C storage
<b>Temperature</b>	-55 to +125	deg C operational
<b>Construction</b>	Alumina Ceramics	High Reliability

