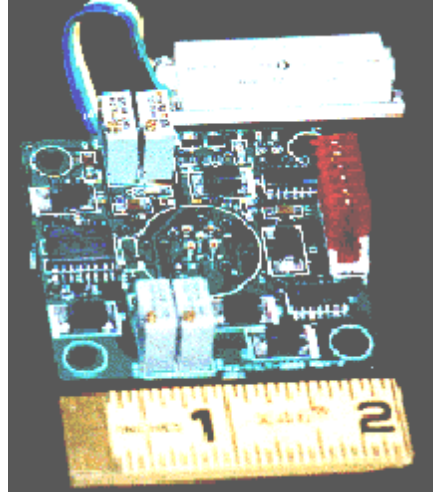




KuSaBa Engineers Pvt. Ltd.

EZ-TILT-3000-NULL / -L
ULTRA HIGH RESOLUTION NULLING SYSTEM



This special single axis NULLING ANALOG output tilt system is built around a customized state of the art CMOS SMT and Feed Through components. A 2" x 2" assembled PCB has a total height excluding the sensing element of 17mm maximum. Analog proportional to tilt DC voltage output provides continuous inclination information in one axis of tilt. This LOW cost module is perfectly suitable for numerous NULL SEARCH and HIGH precision leveling applications. Temperature value is available as a separate voltage output for external reference or other control options. If required, this module is capable of operating with any single or dual axis electrolytic tilt sensor. Module could be supplied calibrated and tested, with data stored in ASCII format on 3.5" disk.

Parameter	Specification sx-003d-null (sx-003d-null-l)	Units/description
Range	-3 to +3	arcdeg, monotonous
Range	-0.5 to +0.5 (-1.25 to +1.25)	arcdeg, near linear
Resolution	< 0.5	arcsec, typical
Repeatability	< 0.0003	arcdeg, typical
Linearity	< 5% @ 1°	CCW & CW
Symmetry	< 5% @ 1°	%, CCW & CW
Time constant	< 150	msec ** #
Supply	5 to 18	Vdc , unipolar or bipolar
Current	2	mA @ 5 Vdc
Temperature	-55 to +125°C	deg C operational sensor only
Temperature	-40 to +85°C	deg C module
Temperature	-40 to +85°C	deg C storage
Construction	Flat mount	Advanced ceramics
Size	1.5"L x 0.5"W x 0.25"H	sensor only **

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