Strain Transducer

Model LST

Strain transducer is designed to measure strain in statically and dynamically loaded applications where high forces are to be measured such as roll stands, injection molding machines and cranes. This can be directly mounted on a flat surface with four bolts. Two oppositely mounted strain transducers should be used where bending effect need to be compensated.

SPECIFICATIONS

Specifications	Accuracy
Rated capacity(R.C.)	0-500μm/m
Rated output(R.O.)	1.5 ± 0.15 mV/V
Nonlinearity	0.5% of R.O.
Total error	0.5% of R.O.
Repeatability	0.5% of R.O.
Zero balance	5% of R.O.
Temperature effect, on rated output	0.02% of FS / ℃
Temperature effect, on zero balance	0.01% of FS / ℃
Temperature range, compensated	-15~70℃
Operating temperature range	-20~70℃
Excitation recommended	2-15V
Input impedance	>1000 Ohm
Output impedance	1000 ± 10 Ohm
Insulation resistance	>5x10^{10} Ohm
Maximum operating strain	750μm/m
Breaking strain	1500μm/m
IP rating	IP 65
Mounting bolt tightening torque	16 N.m
Cable length	6m / 12m

DIMENSIONS TABLE   unit:mm