

MINIATURE S-BEAM LOAD CELL

Model LTA

The miniature S-beam load cell is a bi-directional Aluminum strain gauge based transducer with high performance and built-in temperature compensation.

This design provides better than $\pm 0.1\%$ (full scale) nonlinearity and includes overload protection in both tension and compression directions. Options include IEEE1451.4 TEDS capability.



SPECIFICATIONS

Specifications	Accuracy
Rated capacity (R.C.)	1, 2, 5, 10, 25, 50, 100 lbf
Rated output (R.O.)	2mV/V
Nonlinearity	0.1% of R.O.
Hysteresis	0.1% of R.O.
Repeatability	0.1% of R.O.
Zero balance	$\pm 3.0\%$ of R.O.
Temperature effect, on rated output	0.036% of LOAD / °C
Temperature effect, on zero balance	0.018% of R.O. / °C
Temperature range, compensated	-15~71°C
Operating temperature range	-51~93°C
Terminal resistance input	1000Ω
Terminal resistance output	1000Ω
Excitation recommended	5V
Safe overload	200% R.C.
Overload	1000% R.C.
Weight	9g
Connector	DB9 male or female

DIMENSIONS TABLE

unit:mm

