



Product Description

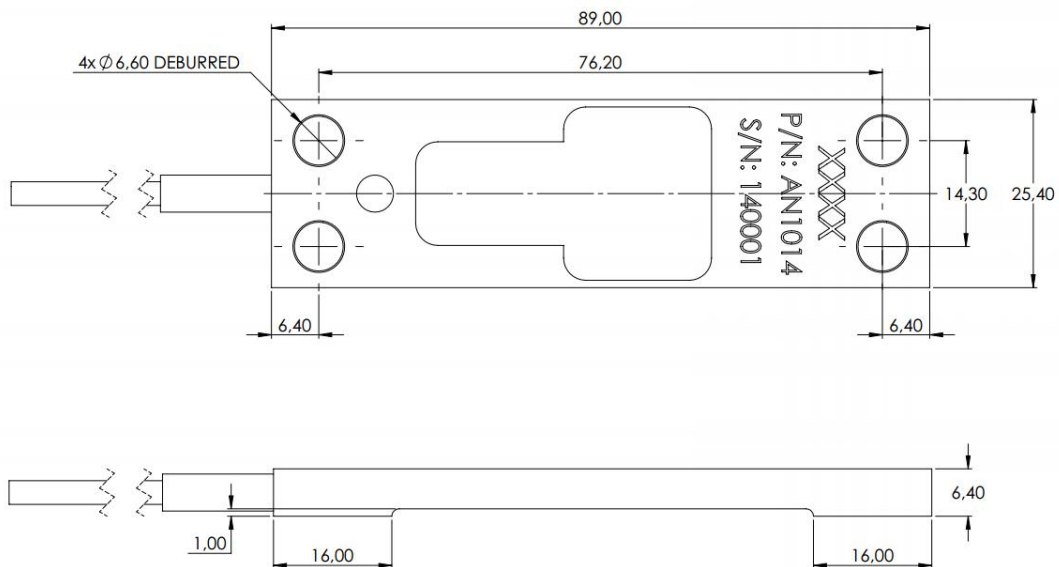
Strain transducer is designed to measure strain in statically and dynamically loaded applications where high forces are to be measured such as roll stands, injection molding machines and cranes. This can be directly mounted on a flat surface with four bolts. Two oppositely mounted strain transducers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

Specification

Parameter	ST500/6	ST500/12	Notes
Measuring range	0-500 $\mu\text{m/m}$		
Sensitivity	1.5 \pm 0.15 mV/V		
Zero signal error	5% FS		
Reversibility error	0.5% FS		
Linearity error	0.5% FS		
Zero temp coefficient	0.01% FS / $^{\circ}\text{C}$		
Span temp coefficient	0.02% FS / $^{\circ}\text{C}$		
Compensated temp range	-15 $^{\circ}\text{C}$ TO 70 $^{\circ}\text{C}$		Ideal operating temp range
Operating temp range	-20 $^{\circ}\text{C}$ TO 70 $^{\circ}\text{C}$		
Output resistance	1000 \pm 10 Ohm		
Input resistance	>1000 Ohm		
Insulation resistance	>5x10 ¹⁰ Ohm		
Excitation voltage	2-15 V		
Maximum operating strain	750 $\mu\text{m/m}$		
Breaking strain	1500 $\mu\text{m/m}$		
Degree of protection	IP65		
Mounting bolt tightening torque	16 N.m		At least 8 N.m
Cable length	6m	12m	

SGST500/6 & SGST500/12 Strain Transducer

Dimensions (in mm)



Wiring

- The strain transducer is provided with a 4 core 28 AWG cable, shield connected to housing

