

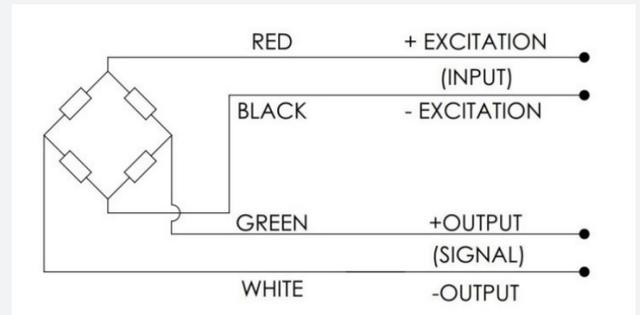
STRAIN TRANSDUCER

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.

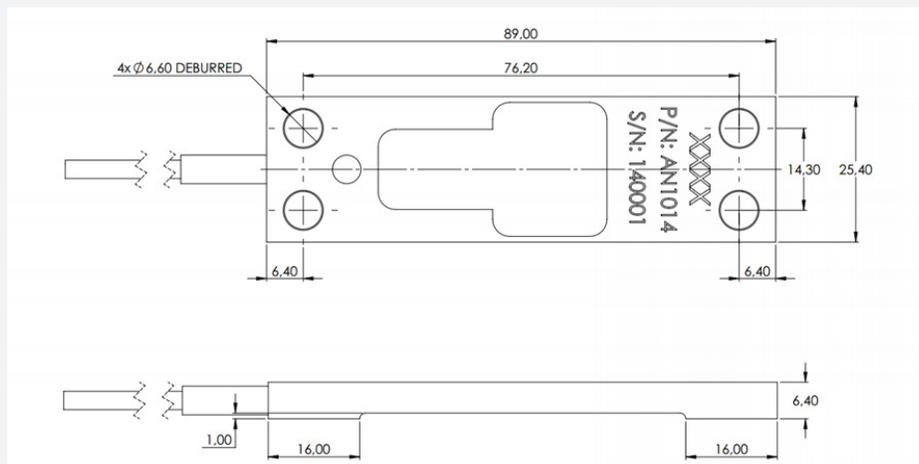


WIRING

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



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STRAIN TRANSDUCER

SPECIFICATION

PARAMETER	ST500/6	ST500/12	NOTES
Measuring Range ($\mu\text{m}/\text{m}$)	0-500		
Sensitivity (mV/V)	1.5 ± 0.15		
Zero Signal Error (%)	5 FS		
Reversibility Error (%)	0.5 FS		
Linearity Error (%)	0.5 FS		
Zero Temperature Coefficient (%)	0.01 FS/ $^{\circ}\text{C}$		
Span Temperature Coefficient (%)	0.02 of load/ $^{\circ}\text{C}$		
Compensated Temperature ($^{\circ}\text{C}$)	-15 to +70		Ideal operating temperature range
Operating Temperature ($^{\circ}\text{C}$)	-20 $^{\circ}\text{C}$ to +70		
Output Resistance (ohm)	1000 ± 10		
Input Resistance (ohm)	>1000		
Insulation Resistance (ohm)	> 5×10^{10}		
Excitation (V)	2-15		
Maximum Operating Strain ($\mu\text{m}/\text{m}$)	750		
Breaking Strain ($\mu\text{m}/\text{m}$)	1500		
Degree of Protection	IP65		
Mounting Bolt Tightening Torque (Nm)	16		At least 8Nm
Cable Length (m)	6	12	

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