

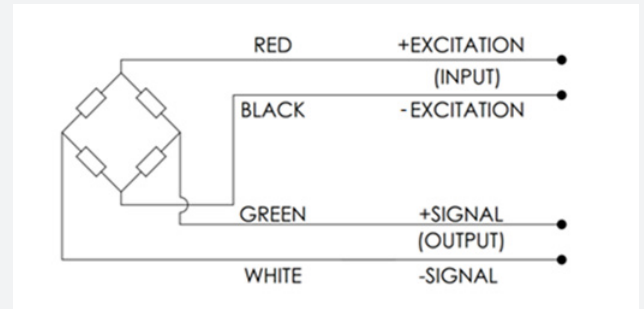
STRAIN TRANSDUCER

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.

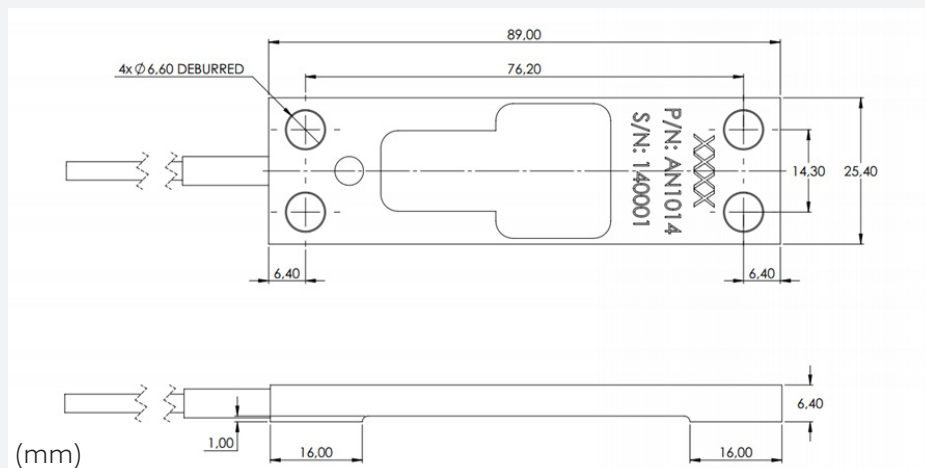


WIRING

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



DIMENSIONS



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HDS_ST500_090120/01

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STRAIN TRANSDUCER

SPECIFICATION

PARAMETER	ST500/6	ST500/12	NOTES
Measuring Range	0-500 μ 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/ $^{\circ}$ C		
Span Temp. Coefficient	0.02% of load/ $^{\circ}$ C		
Compensated Temp. Range	-15 $^{\circ}$ C to 70 $^{\circ}$ C		Ideal operating temp. range
Operating Temp. Range	-20 $^{\circ}$ C to 70 $^{\circ}$ C		
Output Resistance	1000 \pm 10 Ohm		
Input Resistance	>1000 Ohm		
Insulation Resistance	>5x10 ¹⁰ Ohm		
Excitation	2-15V		
Maximum Operating Strain	750 μ m/m		
Breaking Strain	1500 μ m/m		
Degree of Protection	IP65		
Mounting Bolt Tightening Torque	16Nm		At least 8 Nm
Cable Length	6m	12m	

HITEC Sensor Developments, Inc. | 10 Elizabeth Drive
Chelmsford, MA 01824 | United States of America
T +1 978 742 9032 | F +1 978 742 9033

hitecsensors.com