SS6000 Series

Bearing Force Load Cell

Sherborne Sensors

Clearly the first choice for precision .....

Description

The SS6000 series are strain gauge based shear force sensing load cells incorporating cylindrical ends to facilitate the mounting of bearings direct to the load cell. They are machined from stainless steel and have high resistance to overload, shock and corrosion. The transducer is fully compensated for the effects of temperature on the zero output and sensitivity and employs precision transducer quality bonded strain gauges as the primary transduction element. The load cell is ideal for web tension measurement and the control of winding machinery.



Specifications

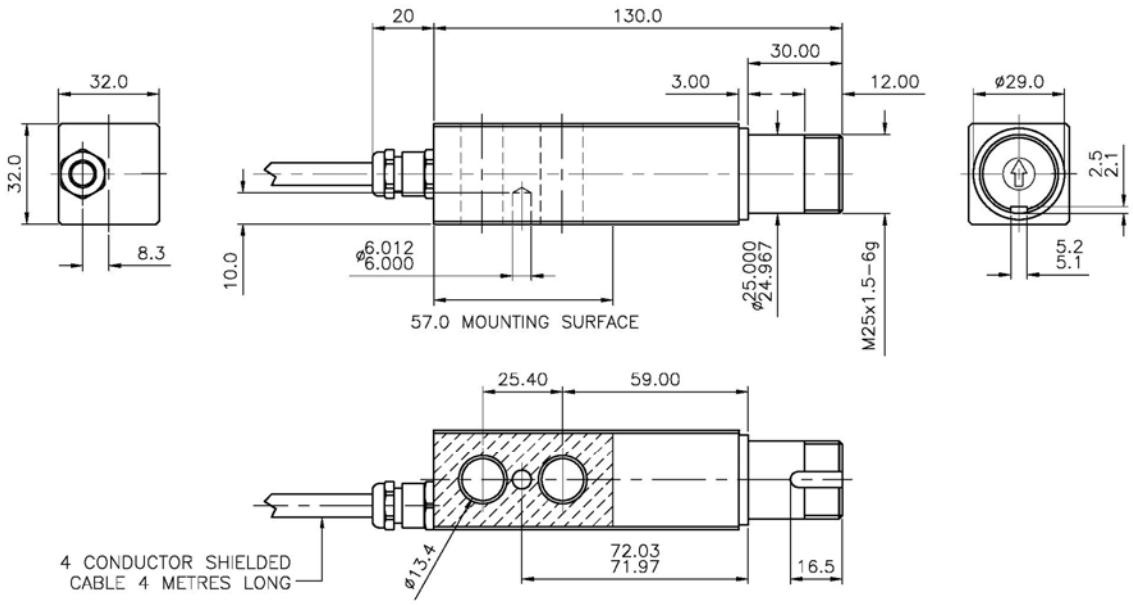
Type Number Operational Mode	**SS6000** Shear Force		
Recommended Excitation Voltage Maximum Excitation Voltage Input Resistance Output Resistance	VDC VDC Ohms Ohms	10 15 380±20 350±5	
Full scale load Maximum load without damage Full scale output Non-Repeatability Zero balance Creep Mechanical Stiffness	2000 3000 2.00 ±0.25% ±0.015 ±1.00 ±0.03 $7.5x10^{-5}$	5000 7500 $4.0x10^{-5}$	kg kg mV/Volt % Full Scale % Full Scale % Full Scale Max mm/kg
Environmental Operating temperature range Compensated temperature range Environmental protection level Thermal Zero Shift Thermal Sensitivity Shift	 -40 to +80 -10 to +40 IEC529 0.0025 0.005		 °C °C IP67 ± % Full Scale/°C (max) ± % Reading/°C (max)
Miscellaneous Electrical connection Documentation Dimensions	 4 metre integral cable Individual calibration data sheet See Drawing A3/OL/22263		

MECO MEASUREMENTS & CONTROLS

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Outline Dimensions:



Ordering Information: Order by Part No and range: SS6000-200Kg.

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