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**Product Name :**

Free Vibration Of Beam Spring

**Product Code :**

SLE/ETM/05



## Description :

- This product is part of a range that explores free vibrations in simple 'one degree of freedom' systems.
- This common system appears in machines and vehicle suspensions.
- A back panel fixes to the Test Frame.
- The panel holds a pivot and a non-contacting displacement sensor.
- This product includes a beam pivoted at one end, with the other end suspended by a coiled spring.
- The pivot contains high-quality self-aligning bearings that hold the left-hand end of a rigid beam, while allowing it freedom to rotate through a small angle.
- The sensor measures the oscillations at the right-hand end of the beam with negligible damping, while working to guide the movement.

### Students to key scientific terms such as:

- Moment of inertia, Oscillation damping.
- Spring constant and Hooke's Law.
- Simple harmonic motion and frequency of oscillation.
- Phase difference between displacement and its derivatives.
- This product fits to the sturdy Test Frame for study or demonstration.

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