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Product Name :

Position Sensor

Product Code :

SLE/EAM/22



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Description :

The **Position Sensor** (Product Code: SLE/EAM/22) is a precision linear potentiometer whose resistance output changes between 0–5k? in step with the position of its slider, so small movements can be converted into an electrical reading. Teachers use it to follow slowmovements such as the expansion of metals, and students find almost limitless scope forinventive investigations of their own. It is manufactured by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, a physics instruments supplier in India to schools, colleges and training institutes.

Specifications

Parameter	Detail
Sensor type	Precision linear potentiometer (linear position sensor)
Output	Resistance changing between 0–5k? with linear position
Mounting	Sturdy acrylic base; the whole assembly can be clamped and used in any position
Connections	Brought out to 4mm sockets
Calibration aid	Bolt-on screw thread jig enables calibration to be carried out easily
Dimensions	180 x 70 x 40mm overall

Typical Use

Because resistance varies linearly with slider position, the sensor becomes a distance-measuring device once it has been calibrated. Using the bolt-on screw thread jig (similar to the arrangement described in the Advancing Physics notes), students advance the slider by known amounts, record the resistance at each step and draw a calibration graph. They can then attach the slider to a rod being heated, a spring being loaded or any slowly moving object and convert resistance readings straight into displacement.

Classic applications in physics lab equipment in India include measuring the linear expansion of a metal rod, following the extension of a spring, and tracking small movements in project work. The acrylic base can be clamped in a stand horizontally or vertically, and the 4mm sockets accept standard leads to a multimeter or into a potential divider circuit if a voltage output is preferred.

Manufacturer

The sensor is made by **Jain Scientific Equipments Private Limited**, which operates under the ScienceLab name from Ambala, Haryana and builds measurement and demonstration apparatus for education. For institutional and tender buyers who need vendor registration details, the company's identifiers are GSTIN 06AAECJ8618A1ZT and LEI 3358004HRD1JIVXKYX49. Our company profile gives further background.

Related Electricity and Magnetism Equipment

Items