Range of linear encoders

Our LVDT (absolute linear position, displacement transducer, linear motion potentiometer or linear actuator) are specially designed to measure and control linear displacements in absolute mode. They can be designed to operate between temperatures -25 to +85 °C), in harsh environments and under high vibration and shock levels. Absolute linear positions have been widely used in applications such as industrial automation, power turbines, hydraulics, Construction Vehicles and many others.

The ELAP displacement transducer change mechanical linear motion into the corresponding electrical signals for direction and for distance information.

The linear potentiometers keep the actual position data at power off: therefore they are peculiarly suited to be employed on machines where it is difficult to reset the axis zero point at the system power on.

ELAP linear encoder range includes a variety of mechanical sizes, strokes, resistive values and mounting fittings to meet any application requirement: there are square potentiometers or round potentiometers, small-sized potentiometers, with measuring strokes ranging from 25 to 950 mm.

The conductive plastic resistive element grants long life (20,000,000 motions), high independent linearity (±0,075% tolerance) and virtually infinite resolution. The standard resistive value is 5 K ohm, but 1 – 2 – 10 or 20 K ohm resistive values are available on request. All the potentiometers available with an aluminium case which ensures high protection against harsh environments.

Several fittings are available: ball joints, out-of-alignment joints, feeler pin and springs for the stem return.