



Linear Position Sensors Ensure Accuracy and Reliability of Down Hole Drilling Equipment

Macro Sensors LVDT Linear Position Sensors are used for position feedback control of down hole drilling equipment such as bore scopes that measure the ID of the drilled hole in petroleum industry.

The LVDT linear position sensors for down hole applications are custom built to survive high temperatures and high pressure. Units are rated for pressures to 20,000 psi, in electrically non-conductive, chemically benign media, at continuous temperatures as high as 400 degrees F. The high temperature ratings are achieved by using special construction materials for the linear position sensors that include special high melting point soldering. To accommodate high pressures, the sensor case is vented to equalize pressure inside and outside of the LVDT linear position sensor.

Offering a compact 3/8" diameter design, these AC-operated LVDT linear position sensors serve well as an integral part of devices with tight space restrictions. A lightweight low mass core also makes the small, contactless linear position sensors ideal for applications having high dynamic response requirements. Units operate with any conventional differential input LVDT signal conditioners to provide position feedback back to operators at the surface.