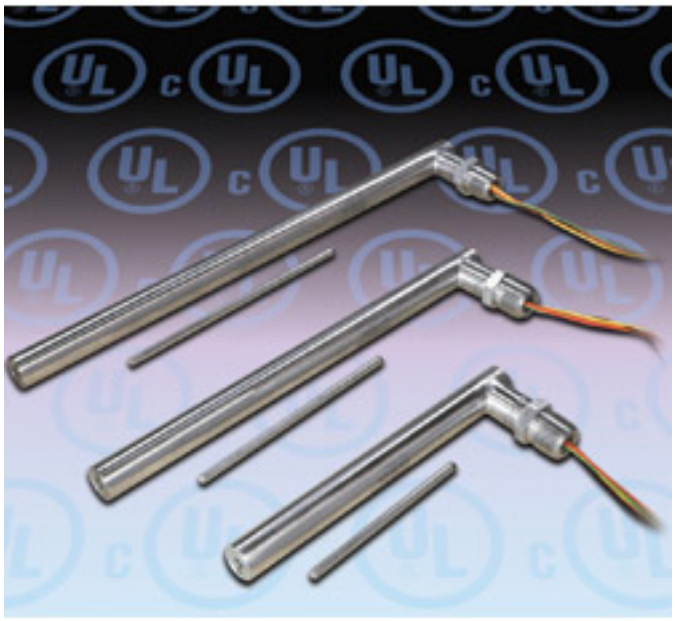
LVDT Linear Position Sensors Approved to Operate in Hazardous Locations



Macro Sensors (www.macrosensors.com [1]) offers an upgraded series of intrinsically safe LVDT Linear Position Sensors for use in hostile environments such as gas/ steam turbine plants, chemical process plants and paper mills. Rated for operation to 212°F (100°C), the HLR sensors are now UL/ULC listed for hazardous locations Class I, Division 1, Groups A, B, C, D and Class I, Zone 2 by Underwriters Laboratories.

Constructed entirely of stainless steel for environmental robustness, the HLR Series LVDT Linear Position Sensors offer reliable and contactless position measurement for critical applications in power plants using gas turbines such as fuel valve position feedback, vane pitch servo controls, governor controls and generator shell expansion. Units are also ideal for throttle position sensing in natural gas pumping stations, height measurement for head boxes and slicers in paper mills and real-time position sensing for all types of valves in chemical process plants.

A through-bore design makes the LVDT cores accessible from both ends for better mechanical support and core guidance and easy cleanout in dusty or dirty locations. Sensor lead wires exit through a radially mounted 1/2-14 NPT male threaded conduit fitting for easy attachment to an explosion-proof junction box as well as rigid or flexible conduit. For added protection against environmental elements, electronics can be installed in explosion-proof enclosures and connected to LVDTs using a suitable conduit.

Available in full-scale measurement ranges from ±1 inch to ±10 inches, units feature excellent repeatability typically better than 0.01% of full scale and non-linearity of less than 0.25% FRO. For more information on the HLR 750 Series, refer

to: http://www.macrosensors.com/HLR_750.html [2]

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Links:
[1] http://www.macrosensors.com
[2] http://www.macrosensors.com/HLR_750.html