

CMCP-LVDT-51A Linear Variable Differential Transformer

Features:

- 2" Range
- Stainless Steel Housing
- NEMA 4X
- 1-6 VDC Output
- 2.5 mV/mil



Description:

In Turbine Supervisory Instrumentation (TSI), case expansion is an important measurement. Case expansion (or shell expansion) is the growth of the machine case with increase of temperature during machine startup and on-line operations. The LVDT is mounted to the foundation at the opposite end from where the turbine casing is attached. The LVDT provides information on the change of position of the point measured relative to the foundation.

Case expansion should be measured by a pair of LVDTs. This provides information on the position of both of the sliding feet on the machine case. This allows for a comparison of readings preventing damage should one foot become obstructed or jammed.

Case expansion measurements also allow determination of whether expected thermal growth differentials are being exceeded on the machine. This is primarily a startup parameter allowing the machine casing and rotor growth to increase at a similar rate. Thermal growth at different rates can cause internal rubbing between rotating and stationary parts of the machine.

The CMCP-LVDT-51A converts the case expansion to a proportional DC voltage, which can be routed to a transmitter or monitor.

Specifications:

Input Power	24 VDC, 30 mA
Range	0-2 Inches; 50.8 mm
Output	2.5 mV/mil, 1-6 VDC
Dimensions	6.125" W x 4.125 H x 12.5" L
Operating Temperature	0°F to 185°F (-18°C to 85°C)

Ordering Information:

CMCP-LVDT-51A	LVDT - 1-6 VDC
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