



Weld Sensor Group, 2080 Arlingate Lane
Columbus, OH 43228 614/850-1140

www.weldsensor.com

Types of LVDTs

Sensotec offers two primary types of LVDTs that differ primarily in their mounting configuration. Generally, the smaller stroke units are spring loaded and the larger ones are swivel mounted on each end. The range of LVDTs is broad and our family of Model WLP transducers includes a range from 0-0.4 inch to 0-8.0 inch.

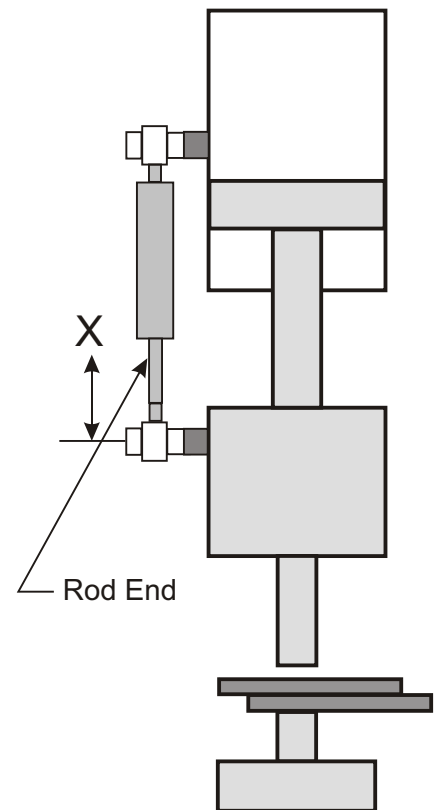
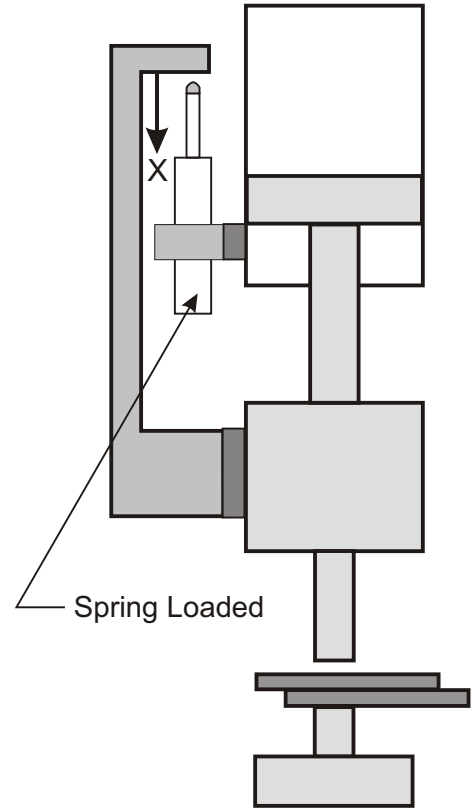
How to Select the Type--The general rule of thumb is to select the range required and then adapt to the mounting arrangement associated with that type. Whenever possible, choose the smallest range that will meet your requirement. The smaller range will produce the more accurate output.

Spring-Loaded LVDT

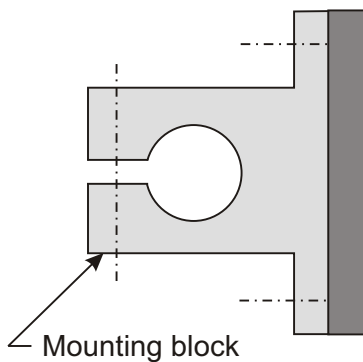
Use a spring loaded LVDT wherever a very fine measure of displacement is required. Mount the LVDT in a manner that provides contact with the LVDT rod just before the electrode contacts the workpiece. Make sure that the locator finger does not bottom out the LVDT at the end of the stroke. This may cause permanent damage to the LVDT. **Insulate from welder at both ends of mounting.**

Rod-End Mounted LVDT

Use a rod-end mounted LVDT wherever it is unfeasible to mount a spring-loaded type. This type is actually easier to mount using the two swivel joints and shoulder bolts provided with each LVDT. Make sure that the LVDT range is slightly larger than the stroke of the ram and make sure it does not bottom out the LVDT on either end of the travel. **Insulate from welder at both ends of mounting.**



Spring-loaded Mounting



Rod-end mounting

