

sTEem-at-Work: Puzzle #13

Technician LVDT operation performance test

The linear variable differential transformer, LVDT, is a sensor that indicates the linear change in the horizontal (vertical) position of a robotic arm and sends an electrical signal to indicate how much differential movement has occurred. The sensor makes symmetrical differential distance measurements; the output signal provided by the LVDT is simply a % of the total output signal the sensor can deliver. In addition, the detected movement is expressed as % of total possible translation of the sensor movement shaft on either side of the null position. The technician routinely runs performance tests on the LVDT to be sure the LVDT meets operational expectations. A summary of one of those tests is provided.

The LVD for this robot system is operating correctly. (yes or no). Submit your answers at www.fl-ate.org



