



# BDI LVDT DISPLACEMENT TRANSDUCER

## DESCRIPTION:

These sensors measure displacement from the differential movement of the armature (the sliding part) relative to the exterior body of the transducer. Their rugged and self-contained design makes them ideal for measuring bridge midspan deflection and other types of deflection measurement. All sensors are supplied with adjustable clamping blocks for easy mounting.

## KEY FEATURES:

- Stainless steel
- High cycle life
- Low supply voltage
- High accuracy
- < 0.0001” resolution
- Low cost



Specifications	
Excitation/supply (acceptable)	5V to 18V DC, 100mA typical
Output	±2.2V
Output load	2kΩ (minimum)
Output ripple	30mV (peak-to-peak)
Electrical output bandwidth	200Hz (flat)
Output impedance	2Ω
Temperature coefficient (zero)	±0.006% F.S. / °F (typical)
Temperature coefficient (span)	±0.017% F.S. / °F (typical)
Operating temperature range	-58°F to 158°F
Electrical termination	20ft cable w/ Intelliducer plug

Range	±1.0" (±25mm)
Linearity error	<±0.5/±0.25/±0.1
L	8.3"
X	2.5"
Total weight	10oz
Spring force at X	7.2oz
Spring rate	3.0oz/inch
Inward over-travel	0.12"
Outward over-travel	0.39"

