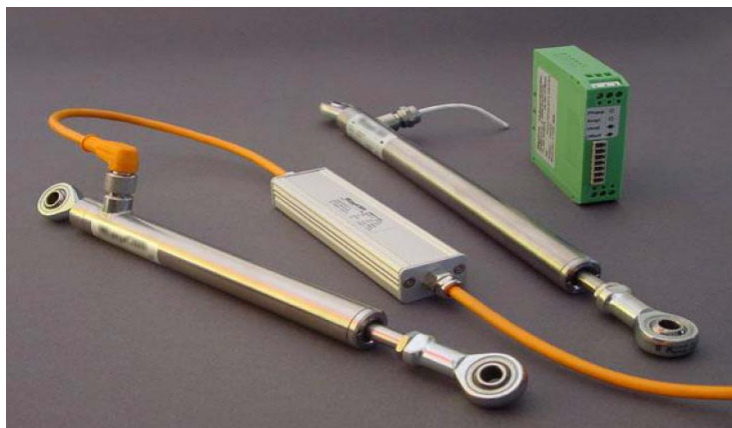


LVDT Displacement Sensor

Features

- ❑ Range: 0 to 50 upto 600 mm
- ❑ \varnothing 20 mm
- ❑ Output: AC, 0...10 V, 0...5 V, 4...20 mA
- ❑ Linearity 0,3%
- ❑ Rugged stainless steel housing
- ❑ Diameter push rod: 8 mm
- ❑ Temperature -40...+120°C (150°C optional)



Outline

Linear Variable Differential Transformers (LVDT) are ideal for applications in harsh industrial environments such as high temperature and pressure applications, dynamic applications and long term cycles.

Specifications LVDT Displacement Sensor

Sensor

range [mm]:	0 to 50 upto 600 (optional)
linearity	0,3 % (0,2 % optional)
types	free core, push rod guided/unguided, rod end bearing
bearing material	Iglidur bearing
protection class	IP65 or. IP68 / 10 bar
vibration stability	DIN IEC68T2-6 10G
shock stability	DIN IEC68T2-27 200 G/2 ms
supply voltage/frequency	3 Veff / 3 kHz
supply range	0,5...8 Veff
supply frequency	2...10 kHz
temperature range	-40...+120°C (150° optional)
mounting	\varnothing 20 mm clamp diameter
connection	4 core PTFE-cable, PUR/ PVC-cable or M12-connection, coupling nut
housing	stainless steel 1.4301
max. cable length	100 m between sensor and external electronics

Free core / push rod

max. acceleration:	100 g
life time	infinite
weight (without cable) [g]	230 g to 940 g

External electronics

output signal	0...20 mA, 4...20 mA (load <500 Ohm) 0...5 V, \pm 5 V (load >5 kOhm) 0...10 V, \pm 10 V (load >10 kOhm)
temperature coefficient	zero 150 ppm/°C, max. value 400 ppm/°C ripple < 20m Veff
max. frequency	300 Hz/-3 dB (Butterworth 5'th rang)
adjustment range	Offset \pm 20%, gain \pm 50%
isolation resistance	> 1 G Ohm at 500 VDC
isolation stability supply	<> signal 500 VDC
power supply	24 VDC (18..36 V) or 15 VDC (9..18 V)
current consumption	<150/80 mA with/without load
sensor supply	3 Veff, 3 kHz
working temperature	0...+60°C
storage temperature	-20...+80°C
housing	UL94-VO mounting on DIN rail