

# Linear Displacement Sensor Models LH and LHS

This is a low cost replacement for DC- LVDT's and other linear motion sensors, consisting of a tubular housing and a permanent magnet core free to move inside it. No windings, no coils, no signal conditioning electronics needed. Patent pending.

The sensor is available in a single supply / differential output version, and a double supply/single ended output version.

Some of its outstanding features:

- ❖ Wide temperature range
- ❖ Small size
- ❖ Excellent environmental resistance
- ❖ No output ripple
- ❖ No need for signal conditioning electronics
- ❖ No need for regulated supply
- ❖ DC to 10 kHz frequency range



SPECIFICATIONS	LH MODEL	LHS MODEL
Non-linearity error*	0.5%FR , typ.	
Supply (nominal)	12 VDC, 20mA	±12 VDC, 20mA
Output regulation	0.2% /V, Vex = 10 to 18V	0.2 %/ V, Vex = ±10 to ±17V
Full scale output	±1 to ±2V differential	±5VDC single ended
T.C of zero	0.01 to 0.03% FR /°C typ. , depending on range	
T.C of span	0.03%/°C typ. , - 20 to 70°C	
Temperature range*	- 55 to 125°C	-55 to 95°C
Frequency response	0 to 10 kHz	
Housing material	Stainless steel	

\* Non-linearity error defined as maximum deviation from the best straight line, in percents of the full measuring range.

Rev. C

© Singer Instruments & Control Ltd., 2012

WWW.SINGER-INSTRUMENTS.COM

Information furnished by Singer Instruments & Control is believed to be accurate and reliable. However, no responsibility is assumed by Singer Instruments & Control for its use, nor for any infringements of patents or other rights of third parties which may result from its use. No license is granted by implication or otherwise under any patent or patent rights of Singer Instruments & Control Ltd.

**Singer Instruments & Control Ltd.**

2 Yozma St., Tirat Carmel 39032, ISRAEL  
yuval@singer-instruments.com

Tel: 972-4-857-8880  
Fax: 972-4-857-8881

