

# Inclinometer Model MTS



The MTS MEMS based single (MTS-S) or dual axis (MTS-D) inclinometer is designed for general purpose applications. Featuring short warm-up time, quick response and short settling time. Internal electronics enable the customer to choose the preferred filters and voltage levels.

## FEATURES:

- Short warm up and settling times
- Fast response
- Low power unregulated supply
- Low price



## SPECIFICATIONS:

	TILT
Measuring range	$\pm 45^\circ$
Non-linearity error <sup>1)</sup>	0.2%FR
Resolution	0.05° (bandwidth 5.0 Hz)
Power supply	$\pm 12V @ 5mA$
Output	$\pm 5V @ 2 mA.$
Zero temperature coefficient	0.015%/°C Typ.
Gain temperature coefficient	0.015%/°C Typ.
Temperature range	0°C to +70°C
Shock survival	100g, 11msec
Base material	Anodized Aluminium
Connector	Binder 4 or 5 ways plug
Weight	65 grams

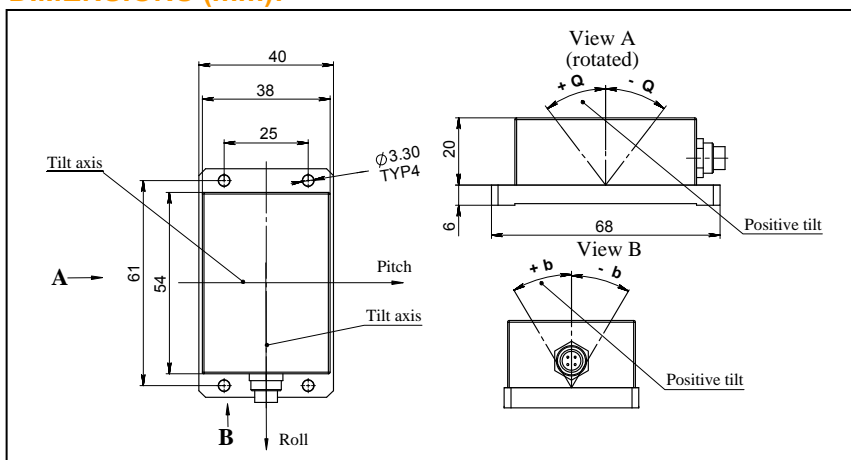
Notes:

1) Non-linearity error defined as maximum deviation of any point from the theoretical sine function line, in percents of the full measuring range. Linearity specified for a  $\pm 45^\circ$  range.

How to order

Ordering example: For single version –Inclinometer MTS-S

## DIMENSIONS (mm):



No Pin	To
1	+12V
2	-12V
3	GND
4	Out Pitch
5	Out Roll ( for MTS-D only)

Rev. G

© 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