Tension-Compression Low Range Force Tranducer **FU-AC Series**



The FU series force transducer is an LVDT type, featuring a practically unlimited life time, making it suitable for fast automatic weighing machines, or other dynamic force measurements..

Internal spring construction includes damping properties, thus limiting overshoot and shortening the response time.

This Load-Cell contains an AC LVDT and therefore requires a signal conditioner to operate it, such as digital or analog EL-35 signal conditioners and USB-10 or USB-10-4 digital controllers.

All are manufactured by Singer Instruments & Control.

Specifications:

Measuring range...... 10 gr. (FU-10AC); 100gr. (FU-100AC);

400gr (FU-400AC); 1000gr (FU-

1000AC):

Measuring frequency . . . DC to 60 Hz

Linearity error......0.1% F.S. to 0.25% F.S. typ,

depending of range

0.02% F. S. to 0.05% F.S. typ Hysteresis error

Input voltage 3V rms (nominal) Input Frequency 6kHz (nominal)

Deflection 0.1 mm typ.

Overload capability 200% to 1000%, depending on range

Side load capability 100% typ. T.C. of sensitivity 0.01% / °C typ.

Operating temperature

range -20°C to + 70°C

Resistance:

Prim. 190 Ω Sec. 190 Ω

Impedance:

Prim. 250 Ω **Sec.** 350 Ω

Shock Survival 500g for 11 msec

Vibration Survival 20 g up to 2 kHz

Lead wires Shielded 6 Wire Cable, 500 mm long

Housing material Anodized Aluminum alloy

or AISI 300 series Stainless Steel

100 grams for Aluminum housing

220 grams for Stainless Steel

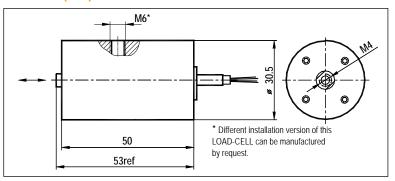
housing

How to order

Ordering example:

Model number: FU - 10AC. (for measuring range 10 gr.)

Dimensions (mm):



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Wiring

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