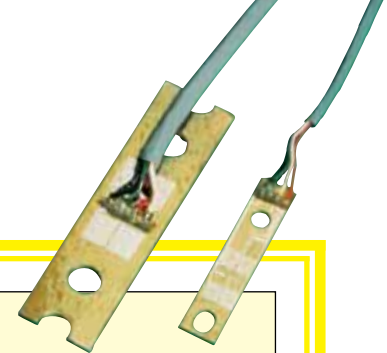
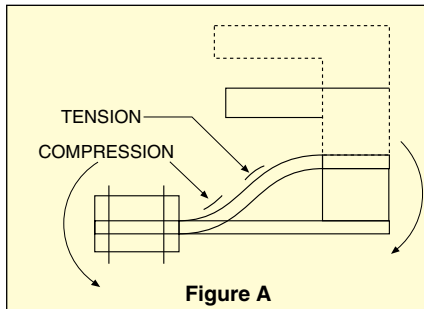




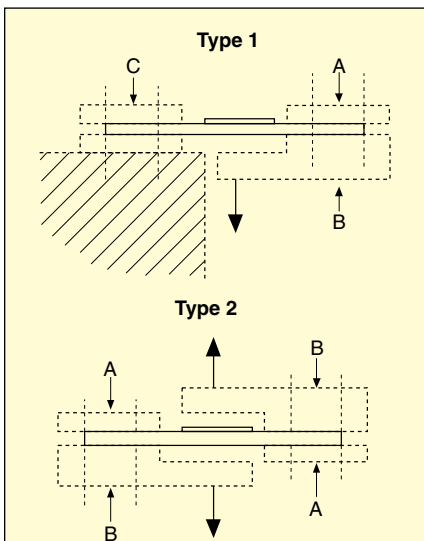
# INSTALLATION CONSIDERATIONS FOR THIN-BEAM LOAD CELLS



Careful design considerations must be taken into account when mounting OMEGA's LCL Series thin-beam load cells. The sensor's performance depends on the mechanical interface. All thin-beam load cells require mounting clamps to create a "double bend" during loading, as shown in Figure A. This illustration is exaggerated to show the clamp's effectiveness in producing opposing moments that create the double bend. An electrical output is generated as the double bend causes tension and compression on the sensor strain gage.



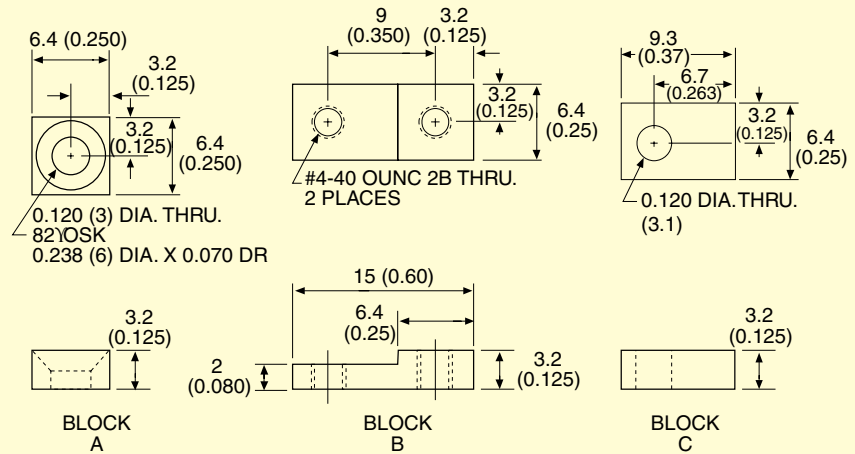
Two typical mounting arrangements are shown below. For high-accuracy applications, reinforcement plates should be slightly harder than the beam material, and the interfacing corners should be sharp. Because of low loads and sensor construction associated with the LCL113G through LCL-816G, in-line loading (Type 2) is not recommended.



## LCL-CL1 Mounting Kit

Mounting kit LCL-CL1 for thin-beam sensors LCL-113G through LCL-816G, Type 1 mounting only. Kit includes mounting blocks A, B, and C.

Dimensions: mm (in)



## LCM-CL1 Mounting Kit

Mounting kit LCM-CL1 for thin-beam sensors LCL-005 through LCL-040. Kit includes 4 mounting blocks, 2 each of blocks A and B. Type 2 mounting only.

