

INSTALLATION INSTRUCTIONS

Each "bolt-on" sensor is supplied with a template to which the two mounting blocks are attached using high tensile cap head bolts. The mounting blocks are welded into position using the template which is then removed and the "bolt-on" sensor attached in its place.

- ó Prepare the local surface area suitable for welding of the beam to which the "bolt on" sensor is to be attached.
- ó Attach "bolt on" mounting blocks to the template using cap head bolts supplied.
- ó Position template and mounting block assembly in the required position and clamp to the surface of the beam.
- ó Weld mounting blocks to beam.
- ó Remove template and attach "bolt on" sensor to mounting blocks.

N.B. To avoid excessive strain being applied to the "bolt on" sensor and subsequent high zero offset output signals, it is good practice to connect the sensor to a 10V DC supply and suitable voltmeter, capable of a resolution of 0.1mV minimum. Initially tighten both bolts hand-tight only and then commence final tightening incrementally, increasing the torque by a small amount on each bolt alternately. Whilst tightening the bolts, observe on the voltmeter any change in output and by careful attention to the amount of torque applied to each bolt, it is possible to attain the final tightening torque of 25Nm without causing excessive zero offset. Providing the final offset figure does not exceed the original offset figure by more than 2mV, a successful installation has been achieved.

INSULATION INSTALLATION INSTRUCTIONS

To minimise the effects of temperature changes to the BOSS-F sensor, it is necessary to protect them with thermally isolating material and heat reflecting self-adhesive tape.

- ó Remove any dust and loose material from all surfaces of the RSJ for 200mm either side of the BOSS-F sensor.
- ó Form the sensor cable into a loop to fit the cutout in the insulating block with the cable exiting along the length of the RSJ. Fix in position with silver backed self-adhesive tape.
- ó Place the insulating block over the sensor and locate with tape.
- ó Wrap the insulating pad and RSJ in overlapping silver backed self-adhesive tape.

Transducer Specialists...

APPLIED MEASUREMENTS LIMITED

3 MERCURY HOUSE - CALLEVA PARK - ALDERMASTON - BERKSHIRE - RG7 8PN - UK

Tel: (+44) 0118 981 7339 Fax: (+44) 0118 981 9121 email: info@appmeas.co.uk Internet: www.appmeas.co.uk

