

CBT BEAM SENSOR

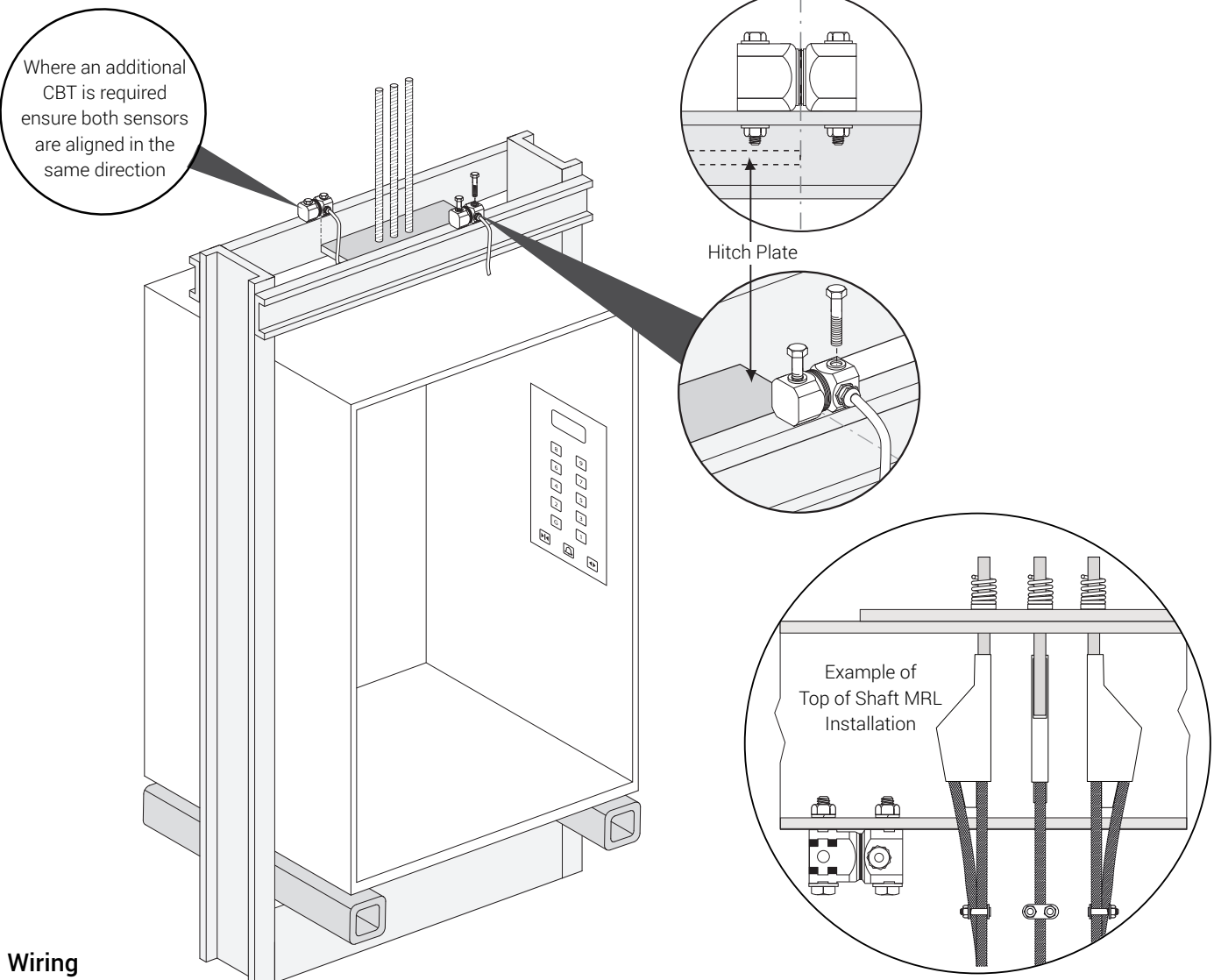
SUPPLEMENTARY INFORMATION

The CBT is a hermetically sealed high accuracy extensometer sensor. It is a highly sensitive transducer that measures minute changes in length in the elevator cross beam when the load is varied. It is made from stainless steel and is fully welded and sealed.

The CBT Sensor has been designed to work in conjunction with the Garan EWS 102 Elevator Load Weighing Device:

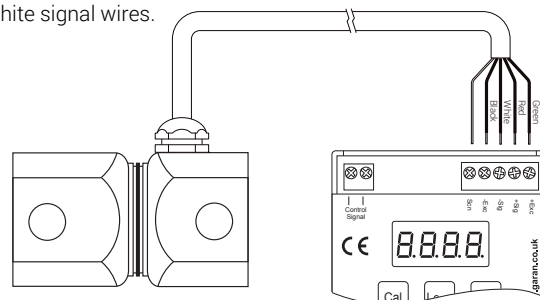
Location

For best accuracy, mount the CBT on the cross beam so the centre section is in line with the end hitch plate, this is where the largest deflection will occur causing the sensor to minutely deflect in bending.



Wiring

Once the CBT sensor has been fitted to the beam, terminate the cable at the EWS 102 Elevator Load Weighing Device, if during calibration the weighs backwards, swop the red and white signal wires.



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Application

The CBT is mounted using 2 x M10 high tensile bolts through the sensor and beam and secured with nuts on the opposite side.

Surface preparation

Having drilled the cross beam to accept the M10 bolts it is essential that the contact surface is flat, clean and free from rust, paint, surface scale and burrs. These must be removed carefully by an abrasive process, such as grinding or filing. It is essential to ensure that the drilled M10 holes are de-burred to ensure a flat surface.

Installation

Mark and drill 2 10.5mm diameter through holes at a distance of 50 mm between centres. Place the CBT over the holes, insert the bolts and washers and tighten finger-tight. Carefully tighten the bolts alternately and in stages to the recommended torque value of 50-80 Nm

