

# 3310



## **TEDEA-HUNTLEIGH model 3310 low profile aluminium shear beam load cell.**

- Capacities 250,500,750,1000kg.
- Low profile for platform scale applications.
- Anodized aluminium construction.
- 6 Wire (sense) circuit.
- IP66 protection.
- Low cost

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Model 3310 is a low profile shear beam load cell designed for high accuracy platform scales, pallet scales and process weighing applications.

It has high immunity to shock or side loading, and is available in 2 mV/V sensitivity.

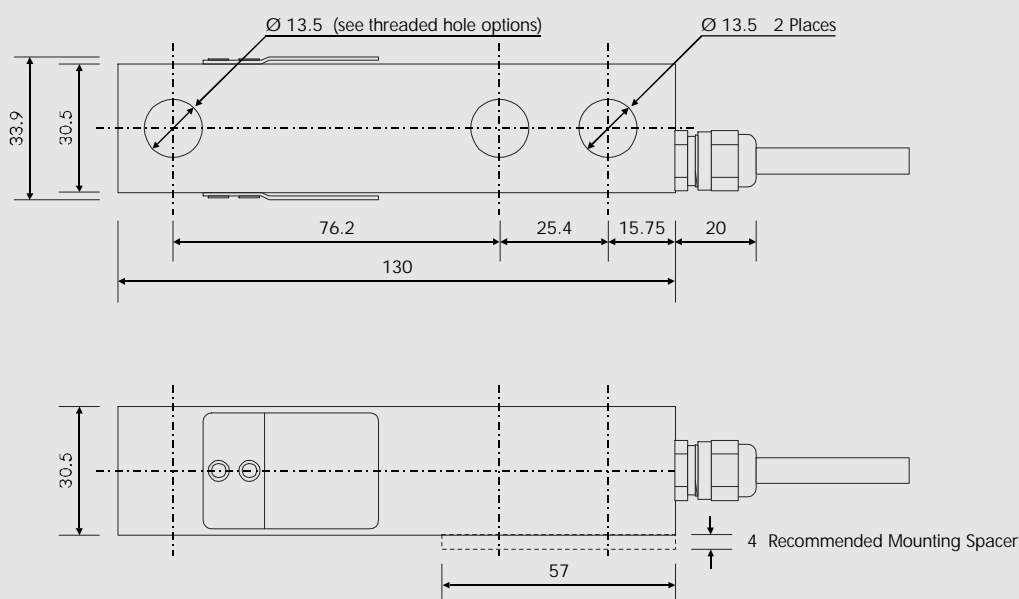
A special humidity resistant protective coating assures long term stability over the entire compensated temperature range.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

# 3310 SPECIFICATIONS

| GRADE                          | Z   | E      | F      | G      | UNITS                   |
|--------------------------------|---|--------|--------|--------|-------------------------|
| Rated Capacities               | 250, 500, 750, 1000   |        |        |        | Kg                      |
| Rated Output                   | 2.0 ± 0.10%   |        |        |        | mV/V                    |
| Total Error                    | 0.075   | 0.050  | 0.030  | 0.020  | ±% of Applied Load      |
| Zero Return after 30 mins      | 0.070   | 0.050  | 0.025  | 0.017  | ±% of Applied Load      |
| Temperature Effect : On Output | 0.007   | 0.0040 | 0.0014 | 0.0012 | ±% of Applied Load / °C |
| : On Zero                      | 0.015   | 0.0070 | 0.0035 | 0.0023 | ±% of Rated Output / °C |
| Zero Balance                   | 3.0   |        | 2.0    |        | ±% of Rated Output      |
| Temperature range : Operating  | -30 to +70  |        |        |        | °C                      |
| : Compensated                  | -10 to +40  |        |        |        | °C                      |
| Safe Overload                  | 150   |        |        |        | % of Rated Capacity     |
| Ultimate Overload              | 300   |        |        |        | % of Rated Capacity     |
| Excitation : Recommended       | 10  |        |        |        | Volts AC or DC          |
| : Maximum                      | 15  |        |        |        | Volts AC or DC          |
| Input Impedance                | 415±15  |        |        |        | Ohms                    |
| Output Impedance               | 350±3   |        |        |        | Ohms                    |
| Insulation Impedance           | >2000   |        |        |        | MegaOhms                |
| Deflection at Rated Capacity   | <0.4  |        |        |        | mm                      |
| Weight                         | 0.5   |        |        |        | kg                      |
| Construction                   | Anodised Aluminium  |        |        |        |                         |
| Environmental Protection       | IP66  |        |        |        |                         |
| Cable                          | 3 Metres (Standard), 6 Wire Polyurethane Jacket, Dual Floating Screen |        |        |        |                         |
|                                |   |        |        |        |                         |

## Outline Dimensions All Capacities

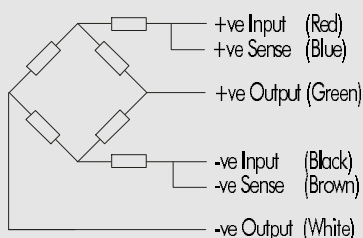


### Threaded hole options

Available with M12 or 1/2-20 UNF threaded loading hole.

All Dimensions in mm

## Wiring Schematic Diagram



## Also available from Tedea-Huntleigh

The alloy steel shear beam Model 3410 load cell can be supplied with self levelling rubber feet for use in low profile platforms. Tank mounts also available. See the Tedea-Huntleigh Load Cell Accessory Catalogue for full details.

For harsh industrial environments a fully welded hermetically sealed stainless steel load cell is available, designated model 3510.

For further details please contact the factory or your local distributor.

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Due to Tedea-Huntleigh's policy of continuous development, these specifications are subject to change without notice.