# 8701 - Export super-precision load cell

## Description

A hermetically sealed load bearing unit operating in compression to produce a standard electrical output which is proportional to the applied load.

#### Construction

100% stainless steel, natural finish.

#### **Capacities**

50,000 lb (23 tonne) 100,000 lb (45 tonne)

Accuracy 5000d OIML.

## Examples of Use

- Road weighbridges
- Rail weighbridges
- Tank weighing
- Hopper weighing
- Process control

## **Special Features**

- 100% stainless steel construction.
- Outstanding repeatability.
- Surge arresters fitted internally to provide protection against lightning damage (See application note on lightning protection).



## **Specification**

#### **Environment**

Resistance to Dirt & Moisture Hermetically sealed

**Storage Temperature Range** - 30° C to + 85° C.

Operating Temperature Range - 20° C to + 60° C.

Calibrated Temperature Range - 10° C to + 40° C.

### Export Packaging Dimensions

(All dimensions approximate)

Number of Cells in a Box Five.

**50,000 lb Load Cells** Gross weight: 34 kg.

Dimensions: 864 mm x 381 mm x 356 mm.

100,000 lb Load Cells Gross weight: 52 kg.

Dimensions: 1041 mm x 381 mm x 356 mm.

Avery Berkel

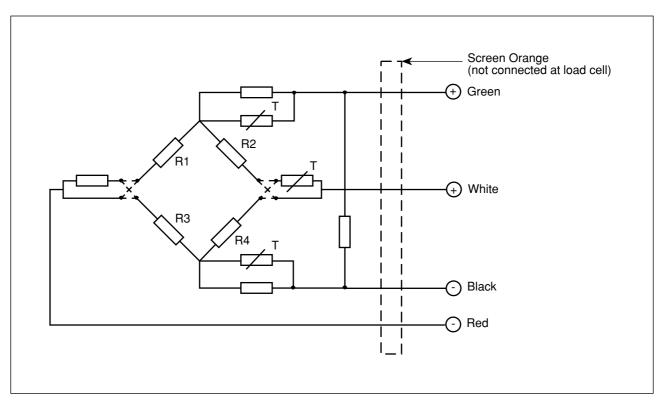
# **Specification**

Excitation Electrical (Recommended)	15v, AC or DC
Excitation Electrical (Maximum)	20v, AC or DC
Terminal Resistance Input at 20°C	450 ohms ± 1%
Terminal Resistance Output at 20°C	480 ohms ± 5 ohms
Rated Output	1.75 mV/V ± 0.1%
Zero Balance	± 1% of Rated Output
Non-Linearity (Maximum)	0.1% of Rated Output
Repeatability	0.01% of Rated Output
Hysteresis (Maximum)	± 0.012% of Rated Output
30 min Creep and Zero Return (OIML R60)	± 0.012% of Rated Output
Temperature Effect on Rated Output (-10°C to + 40°C)	± 0.0008%/°C
Temperature Effect on Zero Balance(-10°C to + 40°C)	± 0.001%/°C
Overload Rating (without affecting Performance)	150% Rated Capacity
Overload Rating (Ultimate)	225% Rated Capacity
Insulation Resistance (Minimum)	5,000 megohms

#### **Electrical Termination**

4 core 7 x 0.12mm or equivalent. Standard length 25 metres. Outer tinned copper sheath. (floating) Overall sheath.

Input: Black - Green + Output: Red - White +



Circuit Diagram.