

## ALS251 Miniature Platform Load Cell

- ▣ Measurement ranges 0 ... 0.2 kg to 0 ... 10 kg
- ▣ Compression / tension
- ▣ Non-linearity 0.04 % R.O.
- ▣ Output 2 mV/V
- ▣ Supply voltage 5 ... 20 VDC



The ALS251 Miniature Platform Load Cell is a low profile, single point OEM load cell offering high accuracy. Only 0.71" (18 mm) high, the ALS251 is ideal for medical instruments, low profile scales and other low profile, high resolution applications.

A 3000 ohm thin film strain gauge bridge provides extremely low power consumption for battery and current loop applications. Capacities range from 200 g to 10 kg-force full scale (approx. 2 N to 100 N).

### ▣ Applications

- Medical Instruments
- Postal Scales
- Counting Scales
- Check Weighing
- Medical Scales

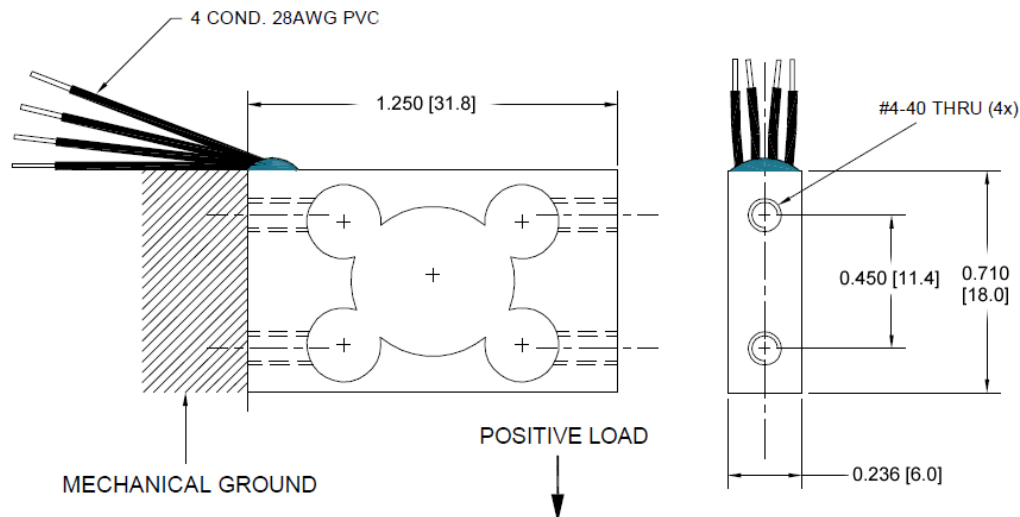
### ▣ Features

- Low Profile
- Stainless Steel
- Low Power Consumption
- Economical
- Low Hysteresis

### ▣ Specifications

Rated capacity (R.C):	0.2 kg, 0.6 kg, 1 kg, 2 kg, 3 kg, 5 kg, 10 kg (approx. 2 N to 100 N)
Non-linearity:	<0.04 % R.O.
Hysteresis:	<0.02 % R.O.
Creep, 30 min:	<0.05 % R.O.
Non-repeatability:	<0.02 % R.O.
Rated output (R.O.), nominal:	2.0 mV/V
Zero balance:	±0.3 mV/V (optional ±1 % R.O.)
Temperature effect on output:	<0.025 % reading/K (optional <0.002 % reading/K)
Temperature effect on zero balance:	<0.03 % R.O./K (optional <0.004 % R.O./K)
Supply voltage:	5 ... 20 VDC or VAC
Bridge configuration	Full Bridge, 4 wire closed
Bridge resistance:	3000 Ω ±2 %
Insulation resistance (at 50 VDC):	>1000 MΩ
Static overload, safe:	150 % R.C.
Static overload, ultimate:	300 % R.C.
Long term stability:	<0.1 % R.O. / year
Electrical termination:	Stranded PVC wire, 10 x 0.1 mm (approx. 28 AWG) 4 wires, 11.5" (300 mm) long
Material:	Stainless steel, Model with capacity 0.2 kg: aluminum

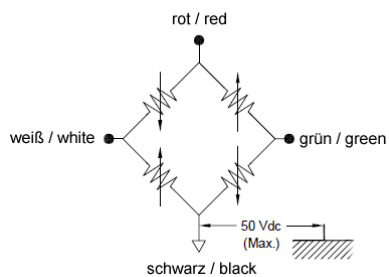
## ■ Dimensions



Dimensions in inches [mm], approx. values

These drawings are for information only and not intended for construction purpose. Please contact us for detailed drawings.

## ■ Electrical Termination



### Wiring:

Red	+ supply voltage
Black	- supply voltage
White	+ output
Green	- output

## ■ Ordering Information

**ALS251-xx**

Please add capacity xx in kg.

### Safety note:

When using the load cell in tension mode it is essential to provide additional safety precautions like safety chains etc. for catching the load in a breakage, which cannot be excluded completely.

Due to continual product development, ALTHEN and partners reserve the right to vary the foregoing details without prior notice.