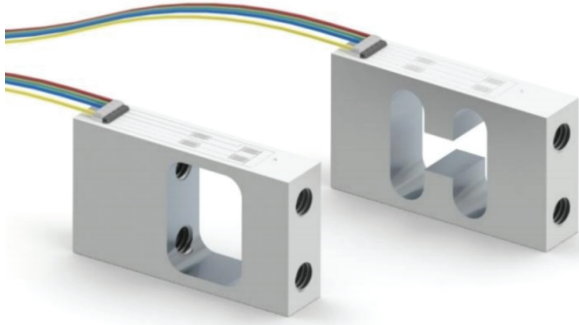




S251 High Range Load Cell



The S251 High Range is a low profile, single-point OEM load cell, offering high accuracy at a reasonable price. Like its 6mm counter part, the S251 High Range is ideal for medical instruments, low profile scales, and other high resolution applications. This version is under 19 mm high and 7mm wide, allowing for up to 50 Kg capacity, full scale, high load applications. A 3,000 Ω thin-film strain gauge bridge provides low power consumption for battery and current loop applications. Options on various specifications and mounting (end holes/side holes) configurations are also available.

Product Specifications:

Rated Capacity:	10, 30 & 50 kg
Maximum Load (Safe):	Up to 150% FSO
Bridge Configuration:	5-Wire Full Bridge
Bridge Resistance:	3000 Ω nominal
Excitation Voltage (Recommended):	10 V dc/ac (20 V max)
Insulation Resistance:	1 G Ω @ 50 V dc
Full Scale Output:	2.15 mV/V
Zero Balance:	+/- 0.30 mV/V
Repeatability:	+/- 0.025% FSO
Linearity:	+/- 0.03% FSO
Hysteresis:	+/- 0.07% FSO
Temp. Effect on Zero:	+/- 0.6 μ V/V/ $^{\circ}$ C
Temp. Effect on Span:	0.03 +/- 0.01% Reading/ $^{\circ}$ C
Operating Temp:	-40 $^{\circ}$ C to 140 $^{\circ}$ C
Body Material:	17-4PH Stainless Steel

Features:

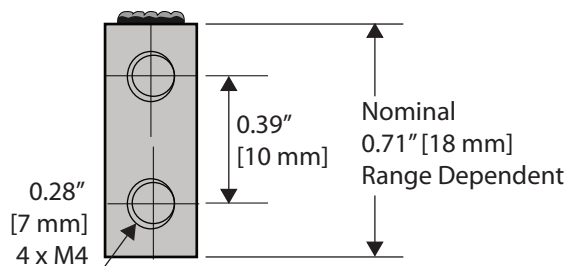
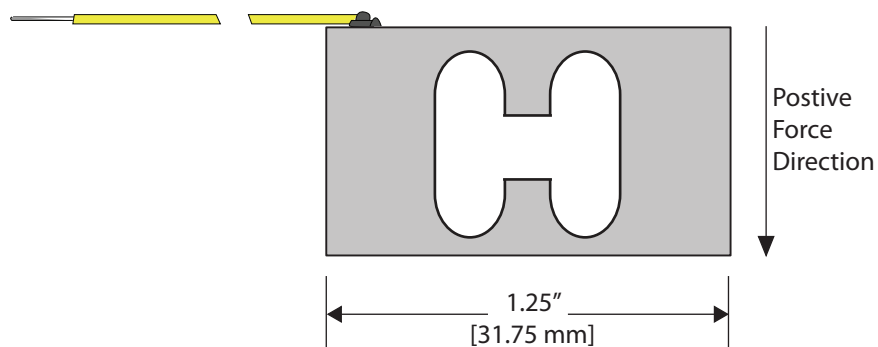
- Low Profile
- Thin-Film Strain Gauge
- Low Power Consumption
- Low Hysteresis
- Long Term Stability

Applications:

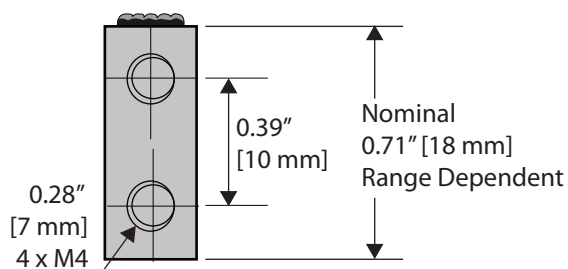
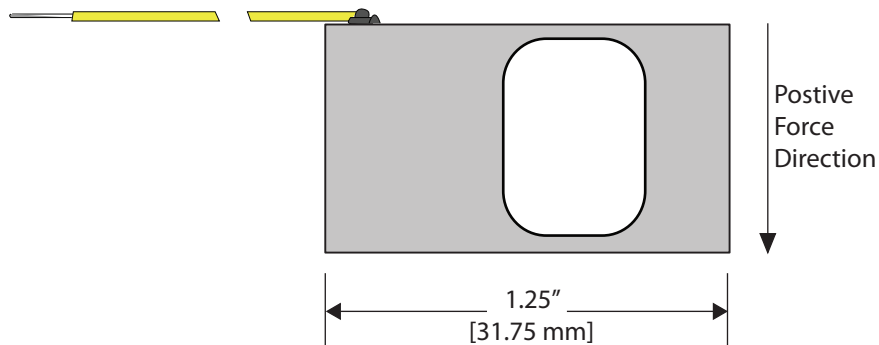
- Medical Instrumentation
- Bag Weighing
- Counting/Postal Scales
- Medical Scales



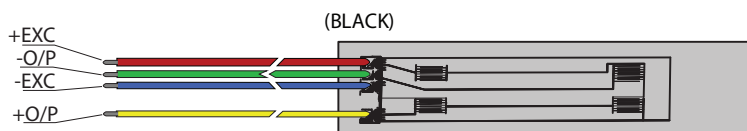
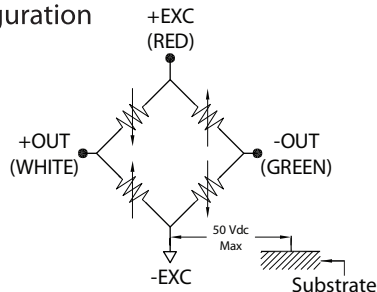
10 & 30 kg Range



50 kg Range



4-Wire Configuration



5-Wire Configuration

