



# Series SMCG150A/SMCG150B

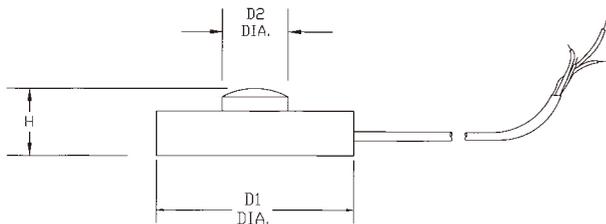
## Subminiature Load Cell



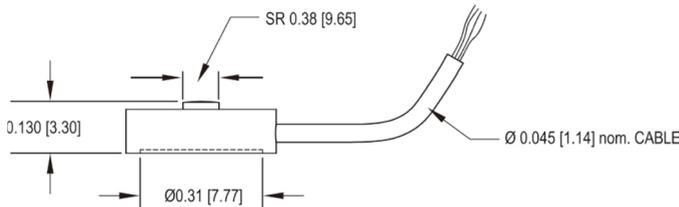
Model SMCG150 (compression only) subminiature load cell is designed to measure load ranges from 150 grams to 1000 pounds with a high frequency response rate. The subminiature dimensions, including diameters from 0.38" to 0.75" and Heights of 0.13" to 0.25" allow these units to be easily incorporated into systems having limited space. A small (1.0" long x 0.08" thick circuit board on ranges 50 g - 1000 g) is included in each load cell's lead wire cable for temperature compensation.

NOTE: Ranges 150G to 1000G lbs only available in SMCG150A style.

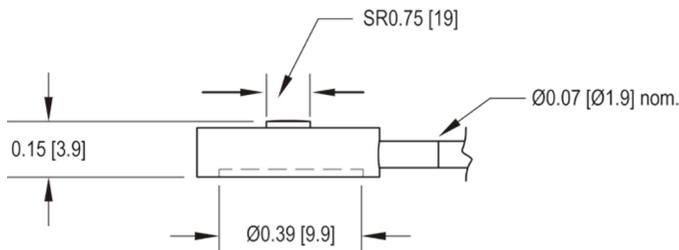
SMCG150A



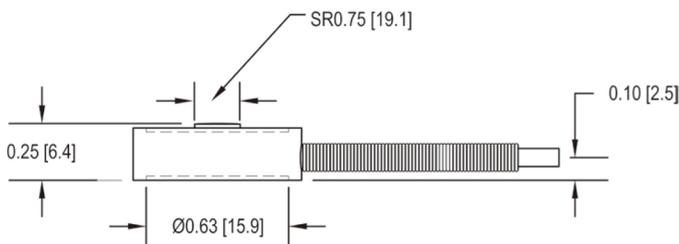
SMCG150B 5 - 50 lbs



SMCG150B 100 - 250 lbs



SMCG150B 500 - 1000 lbs



| AVAILABLE RANGES            | D1" | D2" | H"  |
|-----------------------------|-----|-----|-----|
| 150; 250; 500; 1000 g; 5 lb | .38 | .09 | .13 |
| 10; 25; 50 lb               | .38 | .09 | .13 |
| 100; 250 lb                 | .50 | .12 | .15 |
| 500; 1000 lb                | .75 | .20 | .25 |

- TENSION/COMPRESSION
- WAFER-THIN
- UP TO 1000 LB
- HIGH/LOW TEMP. OPTION
- 150 GMS TO 1000 LB
- OPTIONAL BOTTOM CABLE EXIT

| CAPACITIES |      |
|------------|------|
| LB         | N    |
| 5          | 22.2 |
| 10         | 44.5 |
| 25         | 111  |
| 50         | 222  |
| 100        | 445  |
| 150        | 667  |
| 250        | 1112 |
| 500        | 2224 |
| 1000       | 4448 |

## SPECIFICATIONS

|                       |  |
|-----------------------|--|
| LOAD RANGES:          | 150 g to 1000 lb   |
| LINEARITY/HYSTERESIS: | ±0.5% F.S.   |
| REPEATABILITY:        | ±0.1% F.S.   |
| MATERIAL:             | Stainless Steel  |
| TEMPERATURE RANGE:    | 60° to 160° F  |
| OUTPUT:               | 150 g to 500 g - 15mv/v<br>1000 g - 1.5mv/v<br>5 to 1000 lb - 2mv/v  |
| BRIDGE RESISTANCE:    | 150 g to 500 g - 500 ohm<br>1000 g - 350 ohm<br>5 to 1000 lb - 700 ohm   |
| EXCITATION:           | 5 Vdc  |
| SAFE OVERLOAD:        | 50% Over Capacity  |
| CABLE:                |  |
| LPM 510A -            | 4 Conductor Teflon SS Braided Shielded Cable, 5 Ft Long with Temperature Compensation Board on Cable   |
| LPM 510B -            | Ranges 5-50: 4 Conductor Teflon SS Braided Shielded Cable, 5 Ft Long<br>Ranges 100 to 250: 4 Conductor Teflon Spiral Shielded Cable, 5 Ft Long |
| WIRING CODES:         |  |
| LPM 510A -            | Red +Excitation<br>Black -Excitation<br>Green -Signal<br>White +Signal   |
| LPM 510B -            | Red +Excitation<br>Black -Excitation<br>Green +Signal<br>White -Signal   |

\* Specifications are subject to change without notice