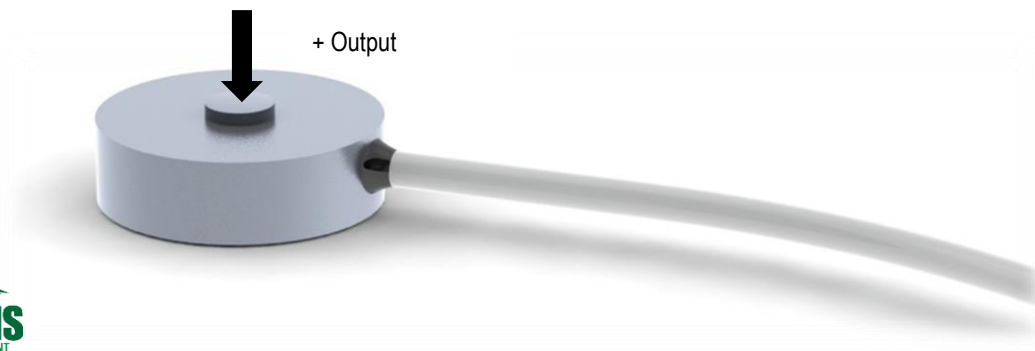


SGLBS1 Sub-miniature Load Button



Product Description

SGLBS1 load button is a stainless-steel sub miniature strain gauge-based transducer with compensated temperature performance. This type provides better than $\pm 0.5\%$ (full scale) non-linearity. Also available with welded cover.

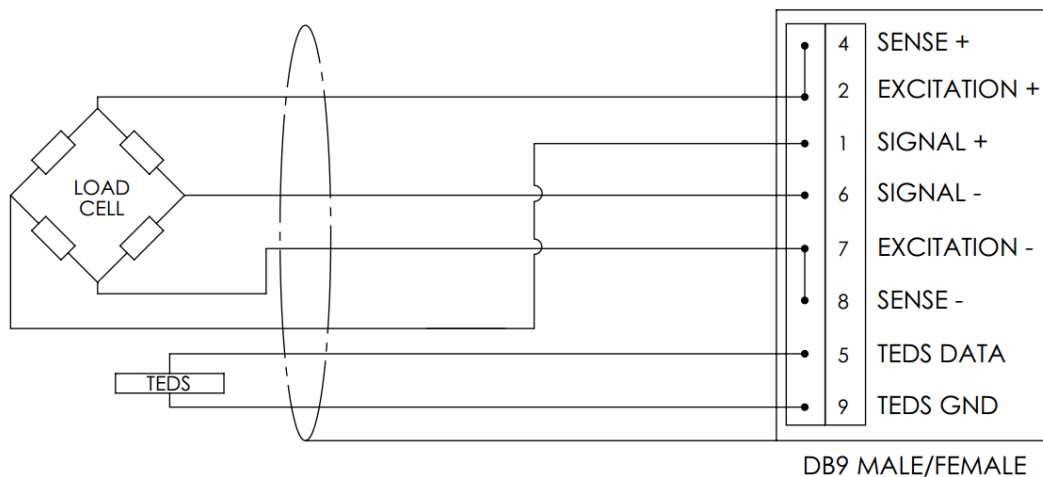
Performance Specifications

▪ CAPACITY	5, 10, 25 & 50 lb
▪ RATED OUTPUT (RO)	2 mV/V nom. (1mV/V nom. For 5 lb)
▪ SAFE OVERLOAD	150 % of R.O.
▪ NO LOAD OFFSET (ZERO BALANCE)	$\pm 2\%$ of R.O. ($\pm 10\%$ of R.O. for welded version)
▪ EXCITATION (VDC OR VAC)	7 MAX
▪ INPUT IMPEDANCE	350 Ω nom.
▪ OUTPUT IMPEDANCE	350 Ω nom.
▪ NON-LINEARITY	$\pm 0.5\%$ of R.O.
▪ HYSTERESIS	$\pm 0.5\%$ of R.O.
▪ CREEP (30 min)	$\pm 0.5\%$ of R.O.
▪ NONREPEATABILITY	$\pm 0.1\%$ of R.O.
▪ TEMP. SHIFT ZERO	$\pm 0.02\%$ of R.O./ $^{\circ}\text{F}$ (± 0.036 of R.O./ $^{\circ}\text{C}$)
▪ TEMP. SHIFT SPAN	$\pm 0.02\%$ of LOAD/ $^{\circ}\text{F}$ (± 0.036 of LOAD/ $^{\circ}\text{C}$)
▪ COMPENSATED TEMP.	5 to 160 $^{\circ}\text{F}$ (-15 to 71 $^{\circ}\text{C}$)
▪ OPERATING TEMP	-60 to 200 $^{\circ}\text{F}$ (-51 to 93 $^{\circ}\text{C}$)
▪ WEIGHT (approx)	0.02 lb [8.5g]
▪ MATERIAL	Stainless Steel
▪ DEFLECTION	0.0008" [0.02mm] nom.
▪ IP RATING	IP64
▪ CALIBRATION TEST EXCITATION	5V Recommended, 10V Max
▪ CALIBRATION (STD)	5 pt. COMPRESSION
▪ CONNECTOR	DB9 Male or Female

Wiring

- The load button is provided with a #32 AWG 4-conductor braided shielded cable with outer jacket, 0.065" [1.63 mm] diameter, 3.5 ft [1 m] or 5 ft [1.5m] long, with no connection between the shield and the sensor body.
- Connector pin configuration as shown below

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Dimensions (mm)

