

10174

PANCAKE FORCE SENSOR

This is a compact, universal force sensor. This low profile unit has a small outer diameter and is capable of measuring both tension and compression. The sensor's shear web design yields high performance and offers high resistance to extraneous forces such as bending, side loads, and torsion. For compression only applications, an optional load button can be supplied. A base plate is also available.



SPECIFICATIONS

Capacities 300 to 100,000lbs / 1.3 to 444kN.
 Overload capacity 150% of F.S.
 Output at full-scale 2mV/V (nom)
 Non-linearity 0.25% of F.S.
 Hysteresis 0.25% of F.S.
 Zero balance 1% of F.S.
 Compensated temperature 70 to 170°F
 Useable temperature -65 to +250°F
 Temperature effect on zero 0.002% of F.S./°F
 Temperature effect on span 0.002% of Rdg./°F
 Bridge resistance..... 350 Ohms
 Excitation voltage, maximum..... 20 Vdc
 Material Alloy steel

MODEL	CAPACITY	
	LBS	kN
10174-032	300	1.3
10174-052	500	2.2
10174-013	1000	4.4
10174-023	2000	8.9
10174-053	5000	22.2
10174-014	10000	44.5
10174-253	25000	111.2
10174-054	50000	222.4
10174-015	100000	444.8

DIMENSIONS

Note: Add "A" to the part number for Auto-ID (ie: 10174-013A)

