

PANCAKE FORCE SENSOR

This is a compact, universal Pancake Force Sensor (10174). This low profile unit has a small outer diameter and is capable of measuring both tension and compression.

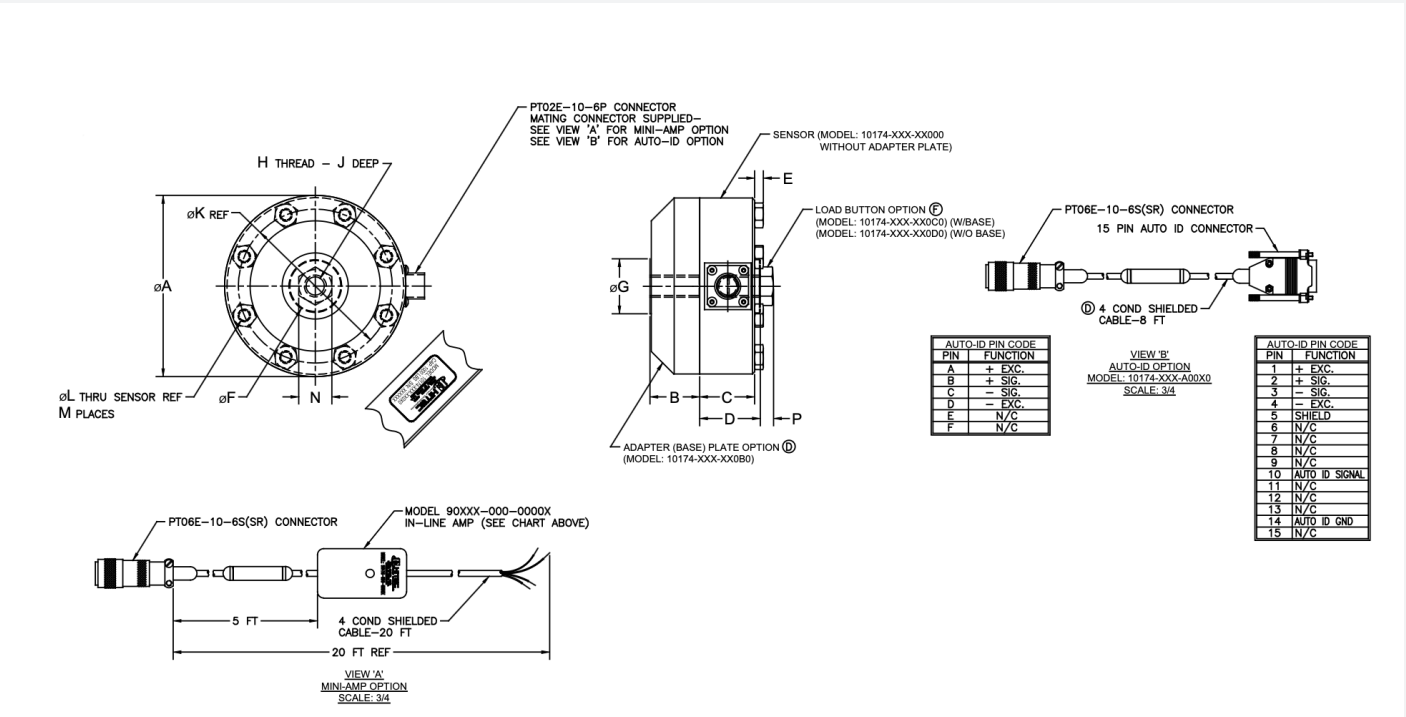
The sensor's shear web design yields high performance and offers high resistance to extraneous forces such as bending, side loads, and torsion. For compression only applications, an optional load button can be supplied. A base plate is also available.



FEATURES

- For compression or tension loads
- Capacities from 300 - 100,000 lbs
- Temperature compensated
- Alloy steel construction
- Shear web design is highly resistant to off-axis loading
- Available with base plate

DIAGRAM



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SPECIFICATION

PARAMETER	RANGE
Capacities (lbs)*	300 - 2,000 / 5,000 - 100,000 (1.3 to 444kN)*
Overload capacity (%)	150 of FS
Output at full-scale (mV/V)*	2.0 nominal / 4.0 nominal*
Non-linearity (%)	0.25 of FS
Hysteresis (%)	0.25 of FS
Zero balance (%)	1 of FS
Compensated temperature (°F)	70 to 170
Useable temperature (°F)	-65 to +250
Temperature effect on zero (%)	0.002 of FS/°F
Temperature effect on span (%)	0.002 of Rdg/°F
Bridge resistance (Ohms)	350
Excitation voltage, maximum (Vdc)	20
Material	Alloy steel

* 300-2,000 is 2.0 nominal; 5,000-100,000 is 4.0 nominal

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