WINDOW PINCH FORCE SYSTEMS: HANDS-FREE PINCH FORCE

Window Pinch Force Systems: Hands-Free Pinch Force (10293) is used to measure the pinch force of automatically closing windows, doors and sunroof systems under defined spring rates and displacements.

The sensor features five interchangeable spring packs, adjustable measurement height, and a hand held peak force display.

The user will configure the sensor spring rate by screwing in the spring packs and adjusting the window bracket to the desired window opening. In operation, the sensor is clipped onto the window and the closer actuated. The companion instrument records the peak force developed to verify compliance to the specifications.

The sensor can also be mated to more sophisticated instrumentation for development applications. The sensor was designed to help automakers and OEM's comply with FMVSS 118 (Federal Motor Vehicle Safety Standard section 571, title 49) and European standards.



Sensor Kits

- 5 spring packs (2, 5, 10, 20, 65 N/mm)
- 200mm extension bracket

Optional Display Units

• PMAC 3000 [Model 90424]

- Sensor attachment assembly
- Signal cable

Peak Track Instrument (PTI) [Model 90323]

OPTIONS

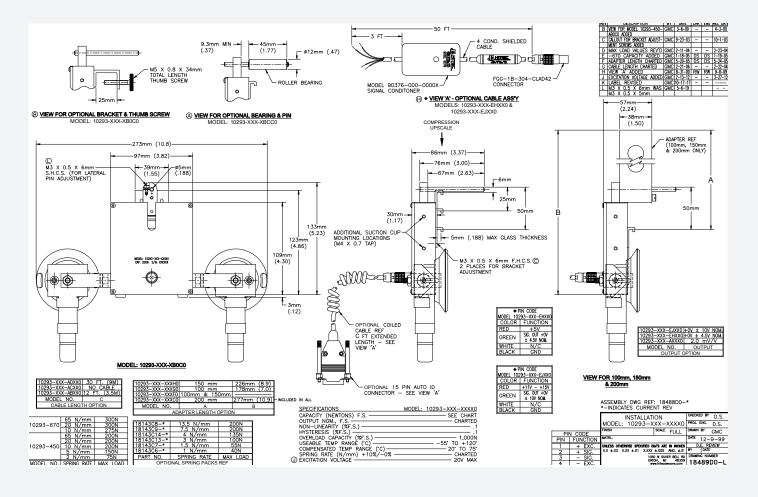
- 300N and 500N full-scale capacity
- 100mm and 150mm Extension brackets

Custom spring rates



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DIAGRAMS



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SPECIFICATION

PARAMETER	RANGE	
Output (at 200N Max Load)	2mV/V nominal	
Non-Linearity (% FS)	0.1	
Hysteresis (% FS)	0.1	
Overload Capacity	1,000	
Compensated Temperature Range (°F)	70 to +170	
Useable Temperature Range (°F)	-65 to +250	
Spring Rates and Maximum Load	Spring Rate	Max Load
	2 N/mm	40 N
	5 N/mm	85 N
	10 N/mm	125 N
	20 N/mm	200 N
	65 N/mm	200 N

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