Crash Barrier Load Cell

- Strain gauge-based transducers
- Single Axis or Three Axis Load Cell
- Compatible with all DAQs
- Customizable size, load capacity, and number of axis

Description

Michigan Scientific Crash Barrier Load Cells are strain gauged-based transducers designed to mount to a rigid mounting plate. The load cells are made of high-grade stainless steel and have a rugged design with all electronics mounted internally. The Crash Barrier Load Cells are available as single axis or three axis transducers.

Michigan Scientific can also produce our Instrumented Crash Barrier System. The system comes fully assembled with the load cells mounted to the plate and the signal wires routed. A standard mounting plate is one square meter and made from high grade stainless steel. It is designed with bolt holes configured for 64 load cells with one millimeter of clearance between each load cell. The plate has internal signal routing. The size of the barrier face can be expanded by using multiple systems. The Instrumented Crash Barrier System mounts easily to the customer's barrier frame which allows the system to be moved between testing setups easily. It does not require a specific DAQ, allowing the user to connect the system to their DAQ of choice.

Specifications

	CT500	CT440
Maximum Force Capacity [Fx]	500 kN	440 kN
Maximum Force Capacity [Fy, Fz] (Three-Axis Only)	125 kN	120 kN
Nonlinearity	< 0.5 % of full scale	
Hysteresis	< 0.5 % of full scale	
Natural Frequency	> 1800 Hz	
IP Rating	IP66	
Temperature Range	-40°F to 257°F (-40°C to 125°C)	
Connector	Mil-Spec Circular	

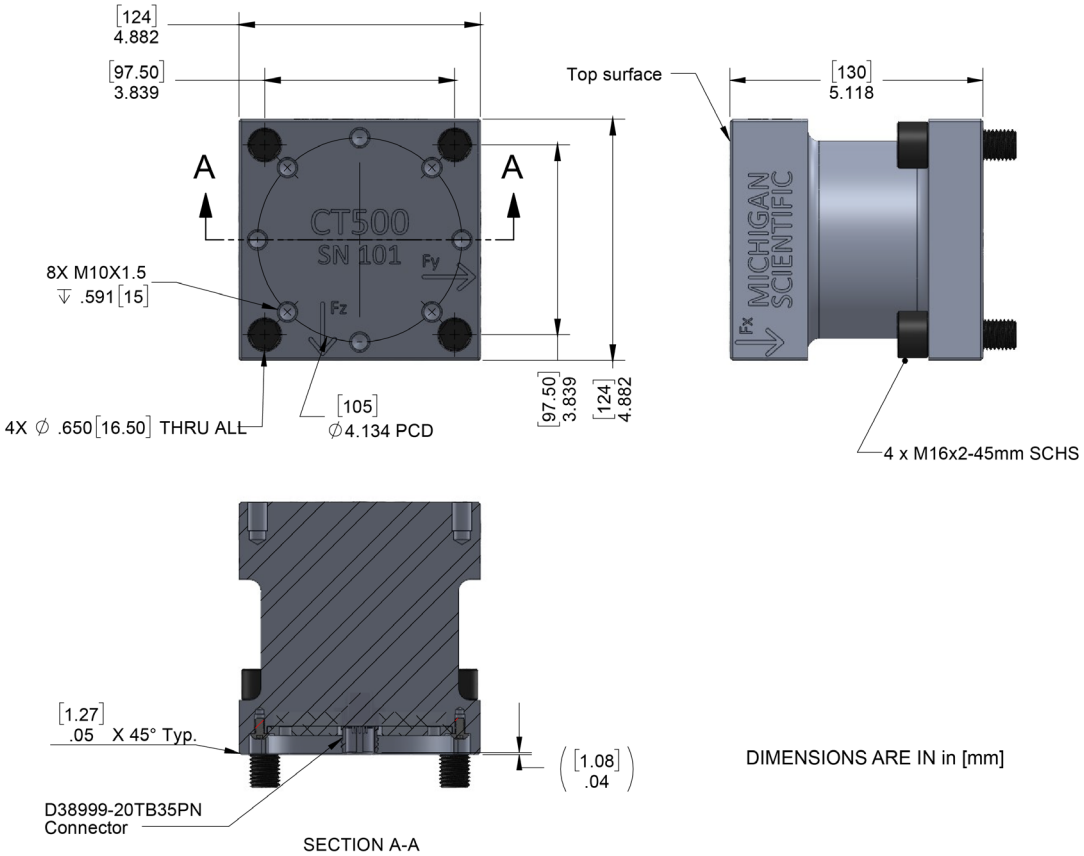
8500 Ance Road
Charlevoix, MI 49720
Tel: 231-547-5511
Fax: 231-547-7070
07-25-24
Rev. A

MICHIGAN SCIENTIFIC corporation
http://www.michsci.com
Email: mscinfo@michsci.com

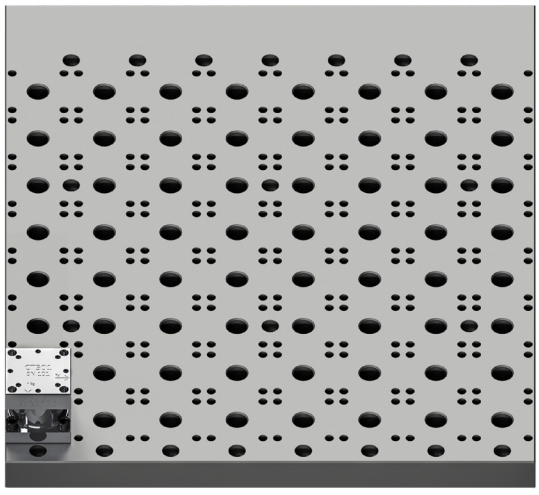
321 East Huron Street
Milford, MI 48381
Tel: 248-685-3939
Fax: 248-685-5406

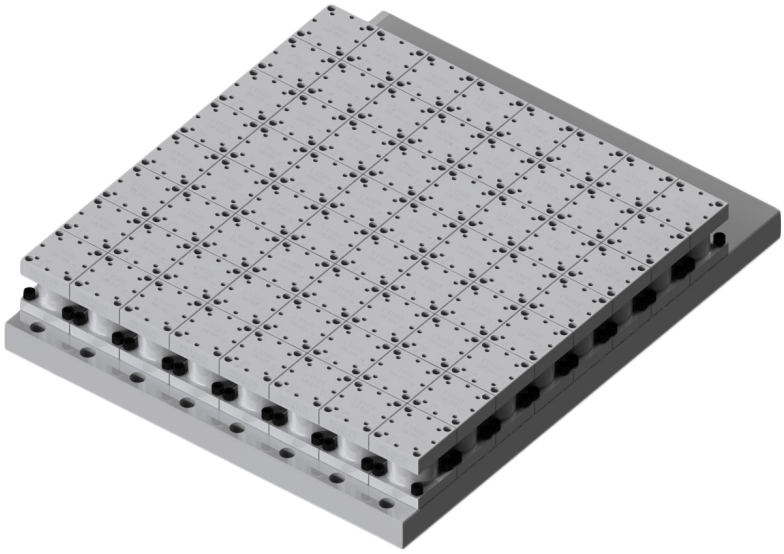
Crash Barrier

CT500 Drawing



Instrumented Crash Barrier System





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