

Rectangular Six Axis Load Cell

Model TR6D-F-5K

- 22 kN force capacity
- 1.1 kN.m moment capacity
- Measures forces and moments in three perpendicular directions
- Low profile design (26 mm height)
- Environmentally protected
- Low cross-axis sensitivity
- Temperature compensated
- Rugged stainless steel construction



Description

Michigan Scientific's *TR6D-F-5K Rectangular Six Axis Load Cell* is designed for applications that require three force and three moment measurements in a low profile package. With 22kN (5,000 lb.) force capacity and 1.1 kN.m (800 lb.ft) moment capacity, this rugged transducer is ideally suited for both field data acquisition and laboratory testing.

High grade stainless steel material, in addition to weatherproof sealing, combine to provide excellent resistance to corrosion and environmental conditions. Temperature compensation of the transducer ensures stable output throughout a wide temperature range.

Specifications

	TR6D-F-5K
Maximum Load Capacity (per channel)	5,000 lb (22 kN)
Maximum Moment Capacity (per channel)	800 lb-ft (1.1 kN.m)
Weight	2.4 lb (1.1 kg)
Full Scale Output	Fx,Fy: 3.0mV/V, Fz: 2.5 mV/V, Mx,My: 3.5mV/V, Mz: 1.3 mV/V
Sensor	Full strain gauge bridges (Fz : 700 Ω , All others: 350 Ω)
Nonlinearity	$\leq 0.5\%$ FS
Hysteresis	$\leq 0.5\%$ FS
Cross-talk between channels	$< 2.5\%$ FS
Temperature Range, Compensated	75°F to 200°F (24°C to 93°C)
Temperature Effect on Zero	$< 0.2\%$ full scale
Temperature Range, Usable	-40°F to 300°F (-40°C to 149°C)
Excitation Voltage, Maximum	10 Vdc or Vac rms
Standard Cable Length	10 ft (3 m) shielded, open-ended leads

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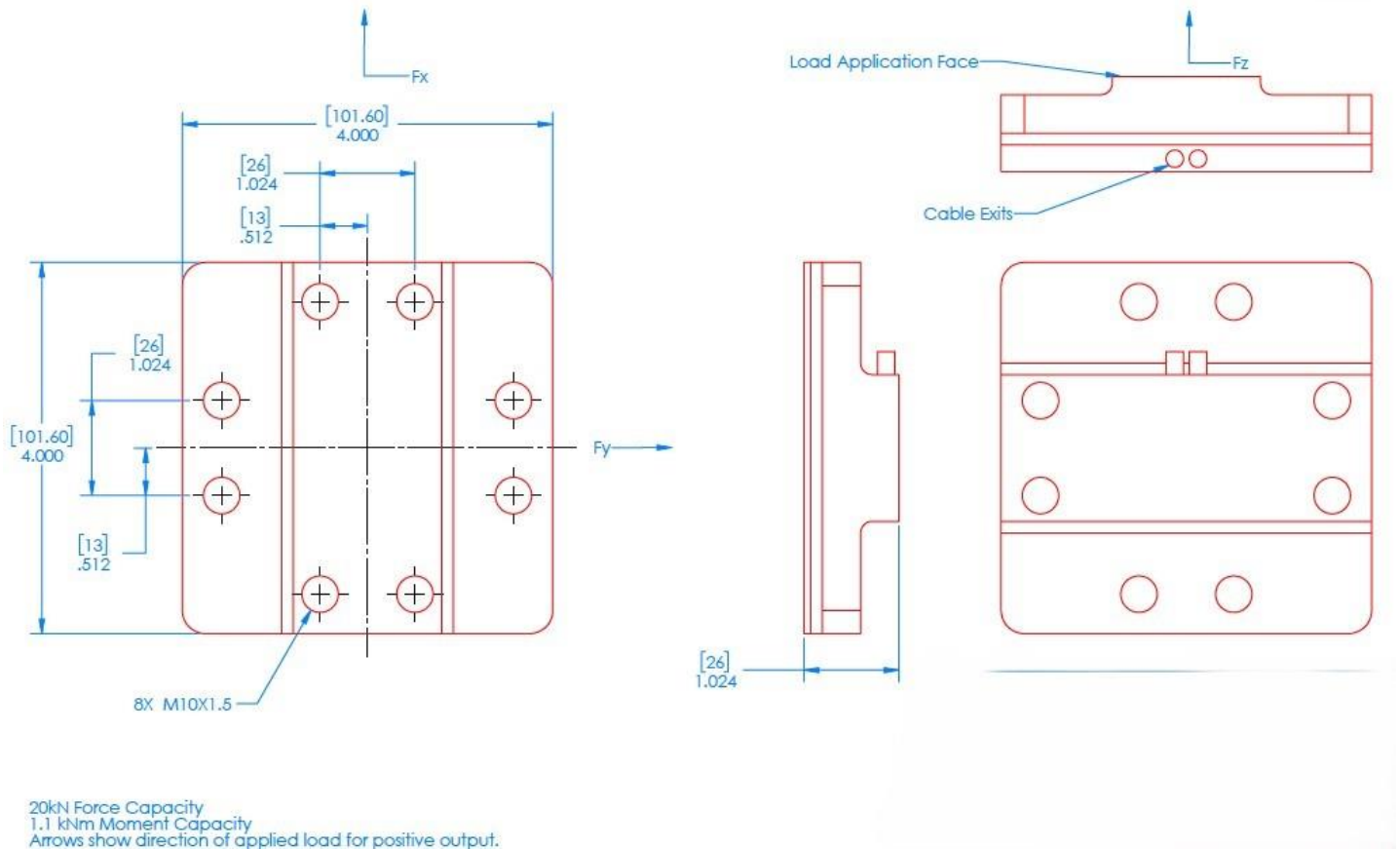
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Rectangular Six Axis Load Cell

TR6D-F-5K Customer Drawing



Ordering Options

Connectors and optional cable length may be specified by the customer.

Contact Michigan Scientific for information on transducer applications and mounting.

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