





- Operating ranges from 0-1kN to 0-50kN
- Crash-testing
- · Compatible with most seat belts
- Detachable tongue and cable
- Easy and economical maintenance

Lower operating ranges with model FN4080

DESCRIPTION

The **FN4070** load cell measures the effort generated on the anchor point of seat belts during crash tests. It has been specifically designed with a replaceable tongue. The load cell can be easily re-used by changing the tongue. It also has a cable output which can be renewed by the crash test technicians to allow for cost-effective, in-house maintenance of the device.

For lower operating ranges 250N refer to model **FN4080**. Consult your MEAS' representative for technical specification.

With many years of experience as a designer and manufacturer of sensors, Measurement Specialties, Inc., often works with customers to design or customize sensors for specific uses and testing environments. To meet your needs we also offer complete turnkey systems. The matched components (sensor, power, amplifier and digital display) are formatted, calibrated and ready for immediate use.

FEATURES

- Multiple tongues adjustable by customer
- Dynamic application
- Very robust for crash
- Easy cable replacement for customer
- Crash test on-board equipment
- Security absorbers

APPLICATIONS

· Parachute belt and anchor testing

STANDARD RANGES

F.S. Ranges in N	1k	5k	10k	25k	50k	
F.S. Ranges in Lbf	200	1k	2k	5k	10k	
Materials	Aluminum	Stainless Steel				

PERFORMANCE SPECIFICATIONS

All values are typical at temperature 20±10 C

PARAMETERS				
Operating Temperature Range (OTR)	-20 to 80 °C [-4 to 176 °F]			
Compensated Temperature Range (CTR)	0 to 60°C [32 to 140°F]			
Zero Shift in CTR	<0.5% F.S. /50°C [/100 F°]			
Sensitivity Shift in CTR	<1 % of reading /50 °C [/ 100°F]			
Range (F.S.)	1 to 50 kN [200 Lbf to 10 kLbf]			
Over-Range				
Without Damage	1.5 x F.S.			
Without Destruction	3 x F.S.			
Accuracy				
Combined Non-Linearity & Hysteresis	<±0.5% F.S			

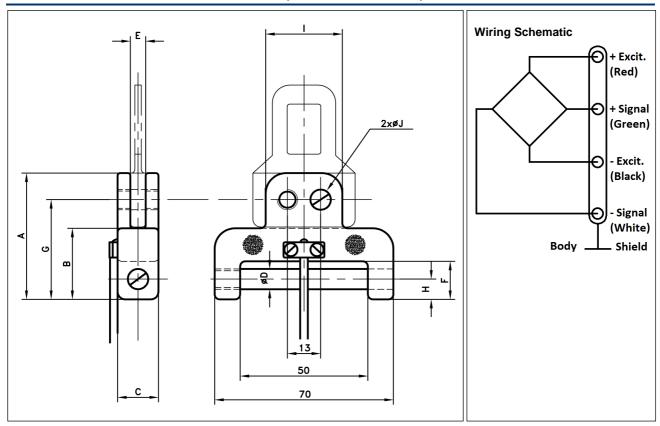
Electrical Characteristics

Model	FN4070			
Supply Outage	10Vdc			
F.S. Output	20mV			
Zero Offset	<±1 mV			
Insulation under 50Vdc	≥100MΩ			

Notes

- 1. Shielded $\Phi 3$ cable with 4 wires (AWG36/28), standard length 2 m [6.5 ft]
- 2. Material: Body in stainless steel or aluminium alloy depending on F.S.
- 3. Protection Index IP50 (other levels available on request)
- 4. CE conformance according to EN 61010-1, EN 50081-1, EN 50082-1

DIMENSIONS & WIRING SCHEMATIC (IN METRIC AND IMPERIAL)



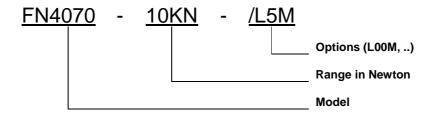
Dimensions in mm [inch]

Full Scale Range in N [in Lbf]	1k [200]	5k [1k]	10k [2k]	25k [5k]	50k [10k]
Α	36 [1.42]	50 [1.97]	50 [1.97]	61 [2.40]	92 [3.62]
В	24 [0.94]	28 [1.10]	28 [1.10]	37 [1.46]	55 [2.17]
С	12 [0.47]	15 [0.59]	15 [0.59]	19 [0.75]	29 [1.14]
D	6.2 [0.24]	8.2 [0.32]	8.2 [0.32]	12.2 [0.48]	18.5 [0.73]
Е	3 [0.12]	6 [0.24]	6 [0.24]	8 [0.31]	12 [0.47]
F	13 [0.51]	15 [0.59]	15 [0.59]	24 [0.94]	37 [1.46]
G	30.5 [1.20]	39.5 [1.56]	39.5 [1.56]	50.5 [1.99]	75.5 [2.97]
Н	7 [0.28]	8 [0.31]	8 [0.31]	12 [0.47]	18.5 [0.73]
I	24 [0.94]	30 [1.18]	30 [1.18]	30 [1.18]	40 [1.57]
J	5.2 [0.20]	8.2 [0.32]	8.2 [0.32]	8.2 [0.32]	12.2 [0.48]

OPTIONS

L00M: Additional cable length option, replace "00" with total length in meters

ORDERING INFO



联系方式



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