



FN9620

Force Load Cell

Specifications

- High tensile strength Stainless Steel
- Quick availability & stock
- ±500N to ±10,000N range
- Non-linearity ±0.05% FS
- Strain gage 350 Ω bridge
- Integral shielded cable

The Model FN9620 is a S-Beam load cell with ranges from 500N to 10kN, designed to operate in hostile environments from -40 to 90°C with IP68 ingress protection.

It provides high stiffness for high cycle use, low off-axis load sensitivity and high level of accuracy.

To ease its use for Process Control Automation equipment, the sensor's sensitivity (in mV/V) is calibrated with 2% tolerance.

Features

- High tensile strength Stainless Steel
- Metric or Imperial thread
- Safe over load 300%
- 10Vdc Excitation Voltage
- -40 to 90°C temperature operating range
- 3 meters Integral cable
- IP68-1m water column

Force Load Cell www.sensorway.cn

Applications

- Structure Testing
- Test Benches
- Process Control & Automation
- Mechanical resistance of materials
- Laboratory and Research

Performance Specifications

Range (FS)	kN	0.5	1	2	5	10
Over range	% FS	150				
Rated output	mV/V	1 ±2% 2 ±2%				
Excitation voltage	Vdc	10				
Excitation voltage min/max	Vdc	2 / 12				
Bridge resistance	Ω	350				
Bridge resistance min/max	Ω	340/450				
Zero balance	±% FS	2				
Insulation	>MΩ	5000				
Non Linearity	±% FS	0.05				
Hysteresis	±% FS	0.03				
Repeatability	±%	0.02				
Symmetry	±%	0.25				
Creep (20mn)	%	0.025				
Side Load sensitivity *	%	1				
Eccentric Load sensitivity	%/mm	0.1				
Safe overload	%	300				
Deflection	mm	0.033	0.065	0.075	0.08	0.13
Stiffness	N/m	1.5.10 ⁷	1.5.10 ⁷	2.6.10 ⁷	6.2.10 ⁷	7.6.10 ⁷
Natural frequency	kHz	1	1	1.25	1.95	2.15
Operating temperature range	°C	-40 to +90				
Compensated temperature range	°C	-10 to +45				
Effect on zero	±% FS/°C	0.008 0.004				
Effect on Output	±% /°C	0.01 0.005				
Protection		IP68 – 1m water column – 100h				
Side load limit	% FS	100				
Bending moment limit	N.m	15	30	60	150	300
Weight (without cable)	kg	0.45				
Cable length**	m	3				
Material		Stainless steel				

^{*} Load = 10% range

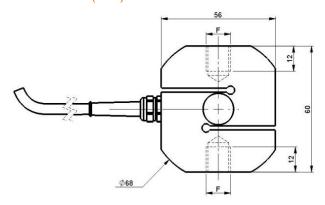
All values are typical

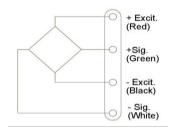
SENSOR SOLUTIONS /// FN9620

 $^{^{\}star\star}$ 4 conductors shielded Ø5 - neoprene jacket (braid not connected to sensor body)

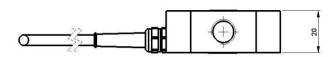
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Dimensions (mm)

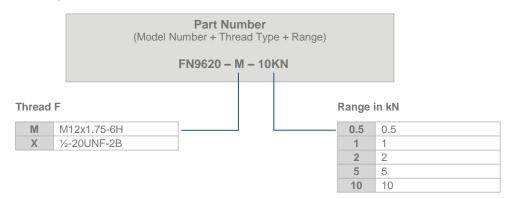




Thread	F
Metric	M12x1.75-6H
Imperial	1/2-20UNF-2B



Ordering Information



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