



(€

FEATURES

- High tensile strength Stainless Steel
- Metric or Imperial thread
- Surcharge sans destruction 300%
- Safe over load 300%
- 3 meters Integral cable
- IP68-1m water column

APPLICATIONS

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

FN9620

Force Load Cell

SPECIFICATIONS

- High tensile strength Stainless Steel
- Quick availability & stock
- Ranges from ±500N to ±10,000N
- Non-linearity ±0.05% FS
- -40 to 90°C temperature operating range
- Integral shielded cable

The **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.

On request, Instruction documents can be provided to ease the selection and use of our sensors and provide helpful tips.

PERFORMANCE SPECIFICATIONS (typical values at temperature 23°C)

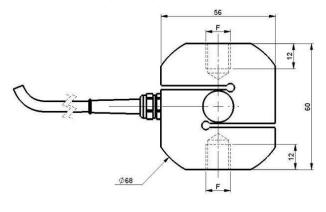
Range (FS)	kN	0.5	1	2	5	10	
Over range	% FS	150					
Sensitivity "FSO"*	mV/V	1 ±2% 2 ±2%					
Power supply	Vdc	10 regulated					
Power supply min/max **	Vdc	1 à 10					
Bridge resistance	Ω	350					
Bridge resistance min/max	Ω	340/500					
Zero Offset	±% FS	2					
Insulation under 50Vdc	>MΩ	5000					
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 (OTR)	°C	-40 to +90					
Compensated Temperature range (CTR)	°C	-10 to +45					
Thermal Zero Shift in CTR	±% FS/°C	0.008	0.008 0.004				
Thermal Sensitivity shift in CTR	±% /°C	0.01 0.005					
Ingress 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					

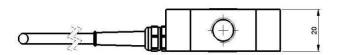
* Signal goes positive in traction with standard wiring configuration

** Load = 10% range

*** 4 conductors shielded Ø5 -neoprene jacket

DIMENSIONS (in mm) & WIRING







FN9620	-	М	-	10KN
Model	-	Thread	-	Range
FN9620	-	M : M12x1.75-6H X : ½-20UNF-2B	-	0.5KN 1KN 2KN 5KN 10KN

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Phone: +1 800 522 6752 Email: customercare.frmt@te.com

EUROPE

Measurement Specialties (Europe), Ltd. a TE Connectivity Company Phone: +31 73 624 6999 Email: <u>customercare.lcsb@te.com</u>

ASIA

Measurement Specialties (China), Ltd., a TE Connectivity Company Phone +86 400 820 6015 Email: <u>customercare.shzn@te.com</u>

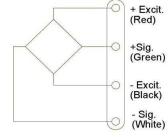
TE.com/sensorsolutions

Measurement Specialties, Inc., a TE Connectivity company.

Measurement Specialties, TE Connectivity, TE Connectivity (logo) and EVERY CONNECTION COUNTS are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2015 TE Connectivity Ltd. family of companies All Rights Reserved.



F

M12x1.75-6H

1/2-20UNF-2B

Thread

Metric

Imperial

Cable shield is not connected to sensor's body

