



FEATURES

- Small size
- High sensitivity
- High overload
- Low deflection
- Long life
- Low cost

APPLICATIONS

- Infusion Pumps
- Load Sensing
- Contact Sensing
- Weighing
- Household Appliances

FS19

Force Load Cell

SPECIFICATIONS

- All stainless steel construction
- Small compression load 350G to 3000G range
- High sensitivity 20 mV/V
- Non-linearity +/-1% FS
- Flex cable for tight space

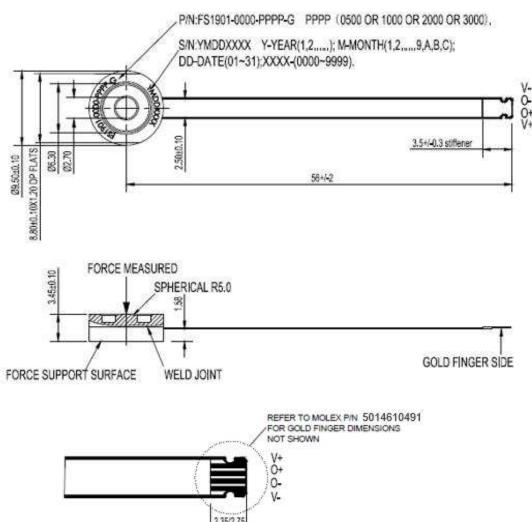
The FS19 load cell, with ranges from 350G to 3000G, uses proven Microfused sensor technology derived from demanding aerospace and automotive applications which employs micro-machined piezoresistive strain gages fused with high temperature glass to a high performance stainless steel force measuring flexure. This sensing technology eliminates age-sensitive organic epoxies used in traditional load cell designs, providing excellent long term stability. This high sensitivity strain gage allows the load cell to produce 20 mv/V output with low strains and deflection, thus long endurance in the smallest package. The flexure is precisely machined to produce excellent consistency from part to part. Typical applications range from medical devices to appliances and exercise equipment.

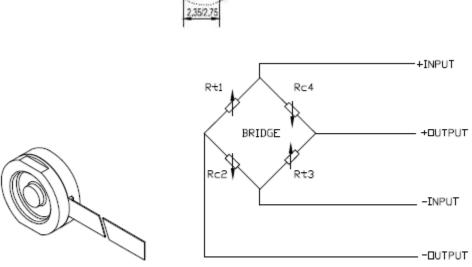
PERFORMANCE SPECIFICATIONS

All specifications are at 25°C except where indicated.

PARAMETER	MIN	TYP	MAX	UNITS, NOTES
Force Range	350/500/1000/2000/3000		/3000	G
Excitation Voltage	2	5	10	VDC
Sensitivities (FSO)	14	20	26	mV/V, Ratiometric to excitation voltage
Non-Linearity	-1		1	%FSO
Hysteresis	-1		1	%FSO
Zero Offset	-9		+9	mV/V, Ratiometric to excitation voltage
Operating Temperature	0		40	°C
Storage Temperature	-40		85	°C
Humidity	0		95	% RH
Safe Load Limit			2x	Rated load
Insulation	50			Meg ohms at 250 VDC
Deflection			0.020	mm at rated load
Input Resistance	1.50K	2.15K	2.80K	Ω
Output resistances	1.50K	2.15K	2.80K	Ω
Thermal Error – Sensitivities	-0.05		+0.05	%FSO / °C
Thermal Error –Zeros	-0.5		+0.5	%FSO / °C
Response Time			1	ms
ESD			±15	KV, 10 discharges qualified per IEC
Weight		1.1		gram
Weather Proof		IP43		

DIMENSIONS (mm)





ORDERING INFORMATION

FS1901	-	0000	-	1000G
Model	-	0000	-	Force Range
FS1901	-	0000	-	0350G 0500G 1000G 2000G 3000G

NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Tel: 1-800-522-6752

Email : customercare.lcsb@te.com

EUROPE

MEAS France SAS, a TE Connectivity company Tel: +33 (0) 800-440-5100 Email: customercare.lcsb@te.com

ΔSIΔ

Measurement Specialties (China), Ltd., a TE Connectivity Company Tel: +86 400-820-6015 Email: customercare.shzn@te.com

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.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Force Sensors & Load Cells category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

FC2311-0000-1000-L ELAF-50N-TS0011 3397-300 060-1436-10-02 060-1436-09-02 060-0571-04-09 FN3030-A1-100N 060-7472-01
FC2311-0000-0250-L FC2311-0000-2000-L FX1901-0001-0025-L FX1901-0001-0100-L VBS020601 VBS020701 MF01-N-221-A04
FS2050-0000-1500-G FX1900-0000-0025-L FX1901-0001-0050-L 4543 MF01A-N-221-A01 MF01A-N-221-A03 MF01A-N-221-A04
MF01-N-220-A01 MF22-N-000-A01 HSFPAR003A 3173-1K FMAMSDXX005WC2C3 FMAMSDXX015WC2C3
FMAMSDXX025WCSC3 FS01 FS03 FSAGPDXX001RCAB5 FSAGPDXX010WCAA5 FSAGPNXX001RC4C5 FSAGPNXX1.5LCAC5
FSG005WNPB FSG020WNPB FSG15N1A FSS005WNGR FSS005WNSB FSS010WNSB FSS005WNGB FSS015WNGB FSS020WNGR
FSS020WNSB FSS1500NGT FSS1500NSB FSS1500NSR FSS1500NST FC23-1-1-0000-0500