

## FEATURES

- Compression only
- Accuracy regardless of force application point
- Extra flat and rugged design

## APPLICATIONS

- On-board vehicle equipment
- Test bench equipment
- Laboratory and research

## FN2570

### Extra-flat Pedal Load Cell

#### SPECIFICATIONS

- Range 200 to 2500 N (40 to 500 lbf)
- Stainless Steel material
- Cable Output
- Very easy fixation

The **FN2570** load cell has been developed for pedal force testing. It attaches easily on all types of pedals and test rigs for endurance and fatigue tests, especially where size is an important factor.

The force is measured with high precision independent of the point of application of force. A strain relief spring strengthens the cable output.

#### APPLICATIONS

A similar pedal load cells with a better accuracy 1%FS and integrated amplifier option exists as model **FN2114**.

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.

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

**FN2570**

Extra-flat Pedal Load Cell

**STANDARD RANGES**

<b>Ranges in N (FS)</b>	200	500	1000	1500	2000	2500
<b>Ranges in lbf (FS)</b>	40	100	200	300	400	500
<b>Material</b>	Aluminum	Stainless steel				

**PERFORMANCE SPECIFICATIONS (typical values at temperature 23±3°C)**

<b>Parameters</b>	
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.)	0-200 to 0-2500 N [0-40 to 0-500 lbf]
<b>Over-Range</b>	
Without Damage	1.5 x F.S.
Without Destruction	3 x F.S.
<b>Accuracy</b>	
Combined non-linearity & hysteresis	≤±2.5% F.S.

**Electrical Characteristics**

<b>Model</b>	<b>FN2570</b>
Supply Voltage	10Vdc
F.S. Output	±2mV/V
Zero Offset	±5% F.S.
Input Impedance/Consumption	700Ω
Output Impedance	700Ω
Insulation under 50Vdc	≥100MΩ

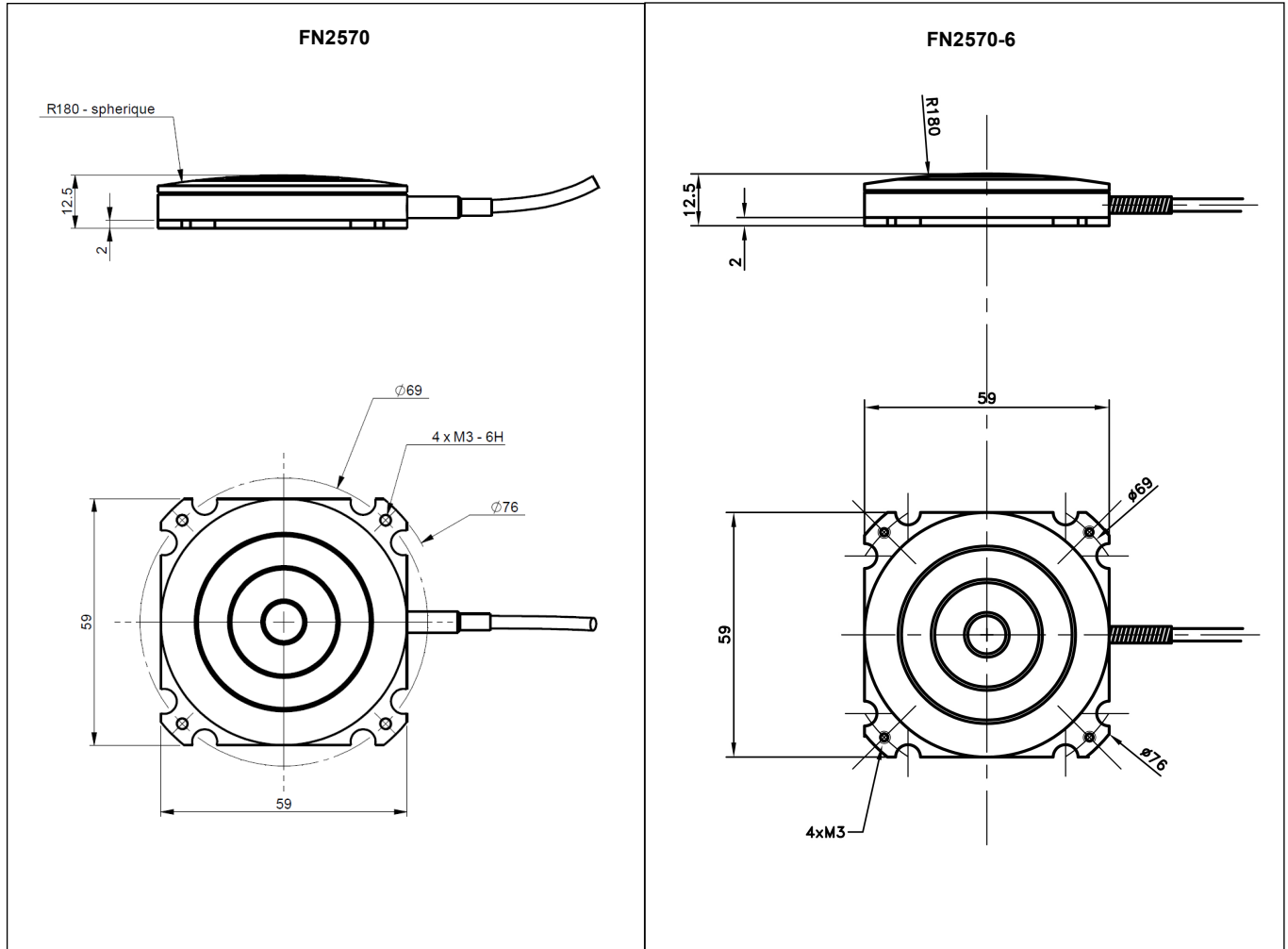
**Notes**

1. Electrical Termination: 2m shielded cable length
2. Protection Index: IP50 3.
3. CE conformance according to EN 61010-1, EN 50081-1, EN 50082-1

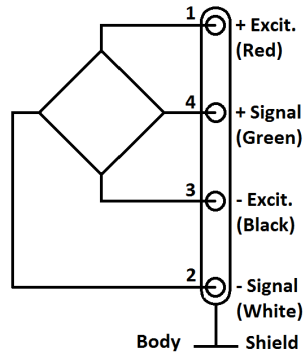
# FN2570

Extra-flat Pedal Load Cell

## DIMENSIONS & WIRING SCHEMATIC (IN METRIC AND IMPERIAL)



### Wiring Schematic



## FN2570

Extra-flat Pedal Load Cell

### OPTIONS

**FN2570:** Cable output with strait tube

**FN2570-6:** Cable output with spring

**L00M :** special cable length, replace "00" with total length in meters

### ORDERING INFORMATION

<b>FN2570-6</b>	-	<b>1KN</b>	-	<b>/L5M</b>
Model	-	Range/Unit	-	Options
<b>FN2570</b> <b>FN2570-6</b>	-	<b>200N</b> <b>500N</b> <b>1KN</b> <b>1.5KN</b> <b>2KN</b> <b>2.5KN</b>	-	<b>/L00M</b>

#### NORTH AMERICA

Measurement Specialties, Inc.,  
a TE Connectivity Company  
45738 Northport Loop West  
Fremont, CA 94538  
United States USA  
Tel: 1-800-767-1888  
customercare.frmt@te.com

#### EUROPE

Measurement Specialties (Europe), Ltd.,  
a TE Connectivity Company  
26 Rue des Dames  
78340 Les Clayes-sous-Bois  
France  
Tel: +33 (0) 130 79 33 00  
customercare.lcsb@te.com

#### ASIA

Measurement Specialties (China), Ltd.,  
a TE Connectivity Company  
No. 26 Langshan Road  
Shenzhen High-Tech Park (North)  
Nanshan District, Shenzhen 518057  
China  
Tel: +86 755 3330 5088  
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.