



FEATURES

- Compact and ergonomic design
- Tension measurements
- High accuracy regardless force application point

APPLICATIONS

- On-board equipment testing
- Production quality control
- Laboratory and Research

FN2317

HandBreak Load Cell

SPECIFICATIONS

- Ranges 500 N and 1000N (100 and 200 lbf)
- Compatible with most handbrakes
- "Easy to mount" through clamping collars
- High accuracy ±0.5 % FS

The **FN2317** is designed with the purpose of allowing quick and easy installation when measuring forces applied to the handle of the hand brake in automobiles. Clamping collars facilitate the prompt and uncomplicated installation of the load cell under the hand brake. As such, the FN **2317** is compatible with most models of hand brakes.

Through careful placement of metallic strain gages inside, the sensors provides accurate measurements regardless of the point of application of force.

With many years of experience as a designer and manufacturer, TE CONNECTIVITY offers solutions to automotive industry and can supply standard or custom 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.

STANDARD RANGES

Ranges in N (FS)	500	1000
Ranges in lbf (FS)	100	200

PERFORMANCE SPECIFICATIONS (typical values at temperature 23±3°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]			
Over-Range				
Without Damage	1.5 x F.S.			
Without Destruction	3 x F.S.			
Accuracy				
Combined non-linearity & hysteresis	≤±0.5% F.S.			

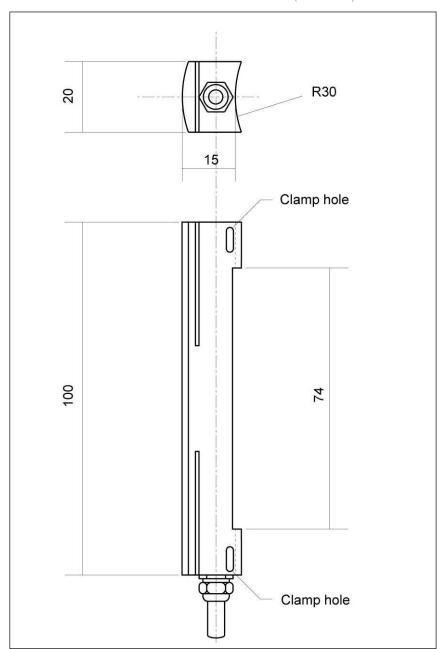
Electrical Characteristics

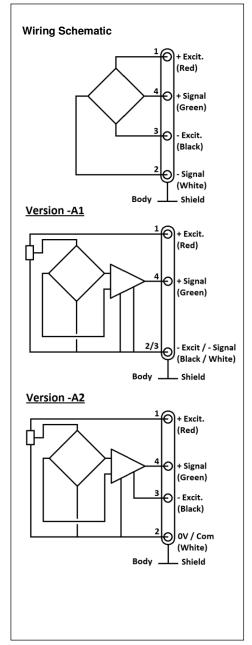
Model	FN2317	FN2317-A1	FN2317-A2
Supply Outage	10Vdc	10 – 30Vdc	±15Vdc (±12 to ±18Vdc)
Sensitivity "FSO" 4	±1.5mV/V	4V ±0.2V	5V ±0.2V
Zero Offset ⁴	±5% F.S.	0.5V ±0.2V	0V ±0.2V
Input Impedance/Consumption	350 to 700Ω	<50mA	50mA
Output Impedance	350 to 700Ω	1 kΩ ⁵	1 kΩ ⁵
Insulation under 50Vdc	≥100MΩ	≥100MΩ	≥100MΩ

Notes

- 1. standard electrical termination: cable gland with Φ 3mm shielded cable, 2meters length
- 2. Material: stainless steel.
- 3. Protection Index: IP50
- 4. Other signal output on request
- 5. Output impedance $< 100\Omega$ on request
- 6. CE conformance according to EN 61010-1, EN 50081-1, EN 50082-1

DIMENSIONS & WIRING SCHEMATIC (IN METRIC)





OPTIONS

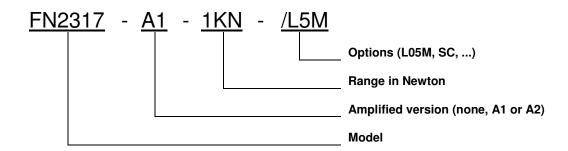
A1: Amplified Tension output with unipolar power supply

A2: Amplified Tension output with bipolar power supply

SC: LEMO connector output instead of standard cable gland

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

ORDERING INFORMATION



NORTH AMERICA

Measurement Specialties, Inc., a TE Connectivity Company Vibration Design Center 32 Journey - Suite 150 Aliso Viejo, CA 92656 United States USA Tel: 1-949-716-0877 Fax: 1-949-916-5677 CustomerCare.lcsb@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 Fax: +33 (0) 134 81 03 59 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 Fax: +86 755 3330 5099 CustomerCare.shzn@te.com

TE.com/sensorsolutions

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