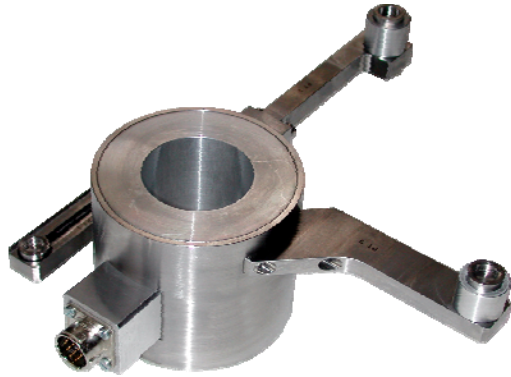


FN7384 Multiaxial Load Cell



- 3 Components Load Cell
- High accuracy
- Multiple designs possible
- Measures force in independent location
- Optional high level output with integrated amplifier

DESCRIPTION

The multi-axial FN7384 is designed for force measurement for tool calibration. Designed for an automotive application, the complete sensor replaces with corresponding dimensions and tolerances, the piece the machine will produce. On strategic places of the mechanic, the arms are equipped with accurate compression load cells.

In production, the customer uses this sensor to adjust the machine before starting his production. All elements are controlled and can be related to national references. It assures the component's manufacturer of its process quality and repeatability.

For a new example of similar application, which uses a sensor designed as a copy of a complex component, please read also the datasheet of FN6115, gearbox transducer.

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.

FEATURES

- Exact design of the piece it replaces
- High sensor accuracy (CNL&H < 1% FS)
- Optional integrated amplifier
- Minimal cross effects

APPLICATIONS

- Process machine control
- Calibration tool
- Automotive and aeronautic industries

STANDARD RANGES

Model	FN7384
Range in N [in lbf]	25k [5k]

FN7384 Multiaxial Load Cell

PERFORMANCE SPECIFICATIONS

All values are typical at temperature 20±1°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	<1% F.S. / 50° C [100° F]
Sensitivity Shift in CTR	< 2% of reading / 50° C [100° F]
Ranges (F.S.)	25 kN
Over-Range	
Without Damage	1.2 x F.S.
Accuracy	
Combined non-linearity and hysteresis	±1% F.S.

Electrical Characteristics

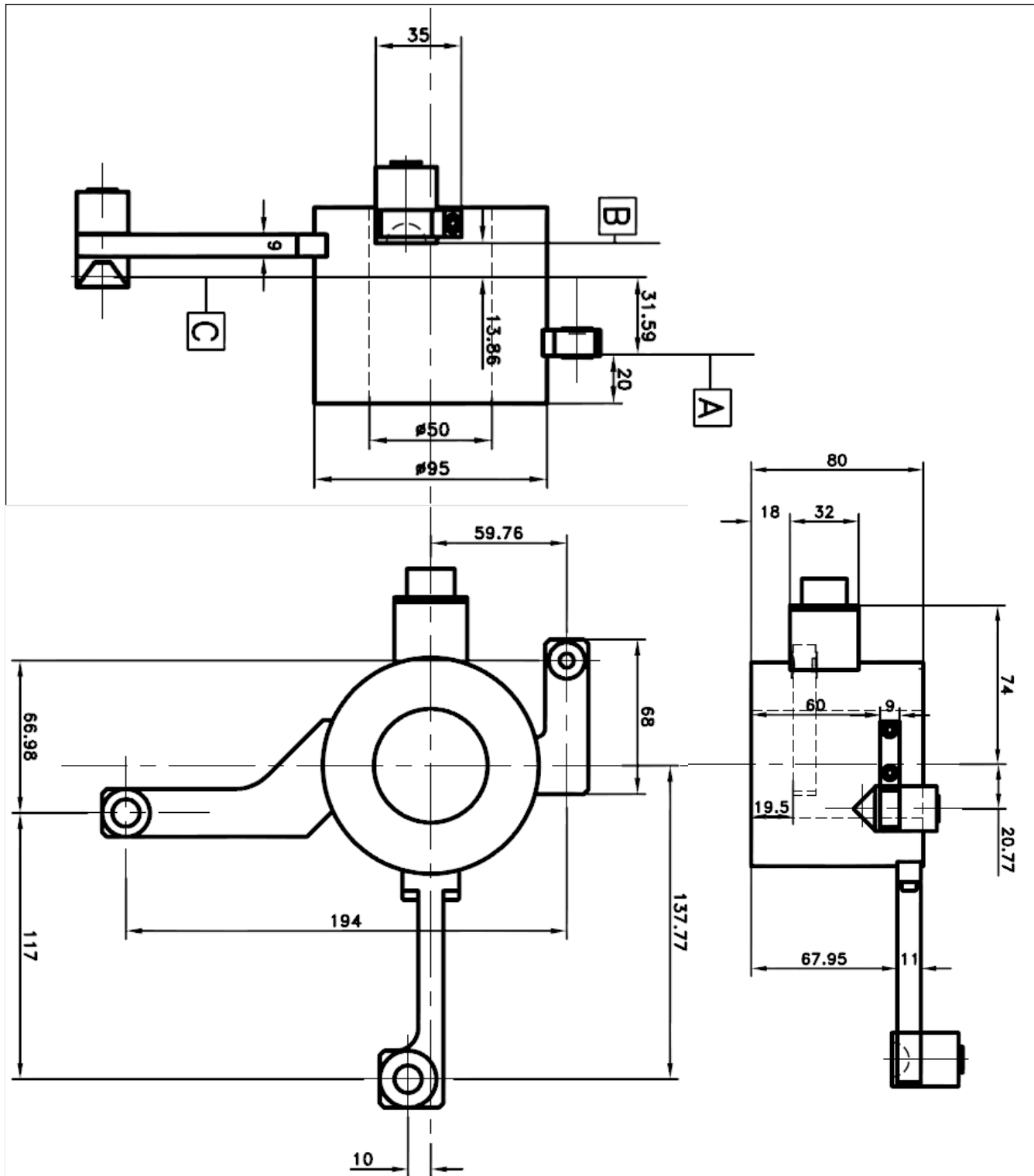
Model	FN7384	FN7384-A1
Supply Outage	5 Vdc	10 - 30 Vdc
F.S. Output	±1.5 mV/V	4V ±5% F.S.
Zero Offset	±5% F.S.	0.5 V ±5% F.S.
Insulation under 50Vdc	≥100MΩ	

Notes

1. Electrical Termination: Connector output including mate
2. Wiring schematic depends on the sensor and number of channels
3. Materials: Body in stainless steel cover in aluminium alloy
4. Protection index: IP50

FN7384 Multiaxial Load Cell

DIMENSIONS & WIRING SCHEMATIC (IN METRIC)



Dimensions are in mm.

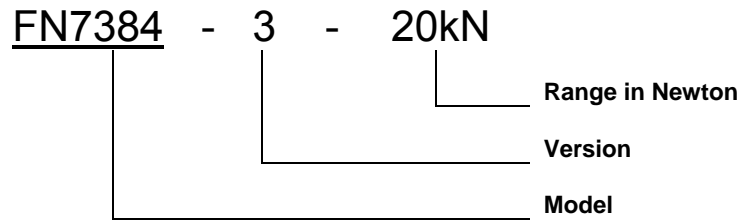
The drawings correspond to FN7384-3 and can change depending on technical specifications.

FN7384 Multiaxial Load Cell

OPTIONS

A1 : Amplified Tension output with unipolar power supply

ORDERING INFO



NORTH AMERICA

Measurement Specialties, Inc.
Vibration Design Center
32 Journey - Suite 150
Aliso Viejo, CA 92656
United States USA
Tel: 1-949-716-0877
Fax: 1-949-916-5677
t&m@meas-spec.com

EUROPE

Measurement Specialties
(Europe), Ltd.
26 Rue des Dames
78340 Les Clayes-Sous-Bois,
France
Tel: +33 (0) 130 79 33 00
Fax: +33 (0) 134 81 03 59
cs.lcsb@meas-spec.com

ASIA

Measurement Specialties
(China), Ltd.
No. 26 Langshan Road
Shenzhen High-Tech Park (North)
Nanshan District, Shenzhen
518057
China
Tel: +86 755 3330 5088
Fax: +86 755 3330 5099
pfg.cs.asia@meas-spec.com

The information in this sheet has been carefully reviewed and is believed to be accurate; however, no responsibility is assumed for inaccuracies. Furthermore, this information does not convey to the purchaser of such devices any license under the patent rights to the manufacturer. Measurement Specialties, Inc. reserves the right to make changes without further notice to any product herein. Measurement Specialties, Inc. makes no warranty, representation or guarantee regarding the suitability of its product for any particular purpose, nor does Measurement Specialties, Inc. assume any liability arising out of the application or use of any product or circuit and specifically disclaims any and all liability, including without limitation consequential or incidental damages. Typical parameters can and do vary in different applications. All operating parameters must be validated for each customer application by customer's technical experts. Measurement Specialties, Inc. does not convey any license under its patent rights nor the rights of others.