

FN6163-2 Gearbox Load Cells



- Compression measurements
- Telemetry based transmission
- RS232 digital output
- Power supply to sensor via telemetry
- System includes FN6114 and FN6115

DESCRIPTION

The **FN6163-2** transducer is part of a whole measurement system, which allows verifying the correct pre-straining of the shafts and differentials in a gearbox. Made to the design of the original short secondary shaft, it accurately measures the axial forces in a typical range of 10 kN.

Through wireless signal transmission and power supply the transducer is extremely easy to mount and use. Different shaft designs have also been designed such as **FN6162**, **FN6164** and **FN6165** transducers. A complete PC software has been developed for interactive configuration.

For a new example of similar application, which uses a sensor designed as a copy of a complex component for machine calibration, contact your MEAS' representative for the technical specification of **FN7385**.

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 industries

STANDARD RANGES

Model	FN6163-2
Range in N [in lbf]	10k [2k]

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PERFORMANCE SPECIFICATIONS

All values are typical at temperature 20±1°C

PARAMETERS	
Operating Temperature Range (OTR)	-10 to 60° C [-4 to 176° F]
Compensated Temperature Range (CTR)	0 to 50° C [32 to 140° F]
Zero Shift in CTR	< 3% F.S. / 50° C [/100° F]
Sensitivity Shift in CTR	5 .10 ⁻⁴ of reading / 50° C [/100° F]
Range (F.S.)	10 kN
Over-Range	
Without Damage	1.5 x F.S.
Accuracy	
Combined non-linearity and hysteresis	±1% F.S.

Electrical Characteristics

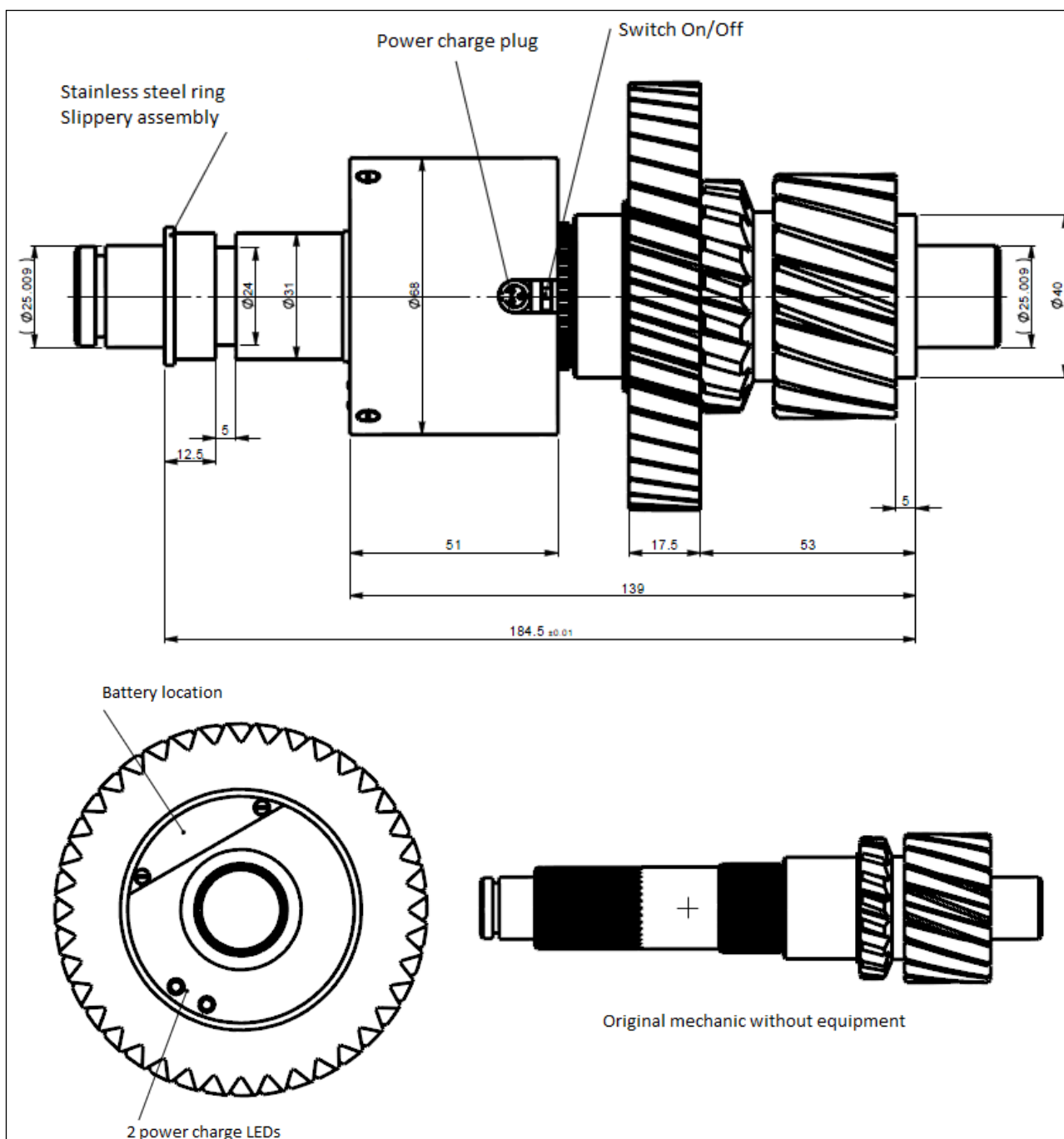
Model	FN6163-2
Supply Outage	6 – 8.5 Vdc
F.S. RS232 Output	10 bit resolution
Insulation under 50Vdc	≥100MΩ

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
5. CE conformance according to EN 61010-1, EN 50081-1, EN 50082-1

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DIMENSIONS & WIRING SCHEMATIC (IN METRIC)

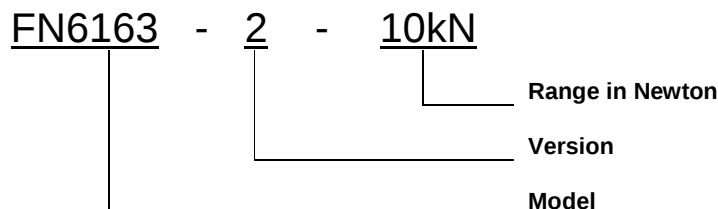


Dimensions are in mm.

The drawings correspond to FN6163-2 and can change depending on technical specifications.

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ORDERING INFO



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