FORCE TORQUE SENSOR
FT 150

A 6-AXIS FORCE TORQUE SENSOR WITH HIGH QUALITY DIGITAL SIGNAL AND EASY INTEGRATION.

HIGH QUALITY DIGITAL SIGNAL
- Immune to external electrical noise
- No filtering needed

DIRECT COMMUNICATION WITH YOUR CONTROLLER
- No need for an external signal processing box

SPEED UP INTEGRATION
- Compatible with industrial robots
- Software packages available for Universal Robots, ROS, Linux and Windows

DESIGNED FOR
PRODUCT TESTING
HAND GUIDING
ASSEMBLY

robotiq.com
T: 1.418.380.2788
Noise is here defined as the standard deviation of all data collected for 10 seconds for a steady signal. The value is computed for all 3 sensing elements for both vectors. For example, welding current passing through the sensor hole does not affect the readings.

Hour-to-hour drift is non-significant. Can be minimized if the environment is well-controlled. This specification does not consider the effect of a long-term change of the environment relative humidity.

Temperature fluctuation is compensated for within this range. Signal quality may be affected outside of this range.

**MECHANICAL SPECIFICATIONS**

- **Outside diameter**: 120 mm
- **Through-hole diameter**: 45 mm
- **Thickness**: 37.5 mm
- **Weight**: 650 g
- **Stiffness (calculated)**:
  - Fx, Fy: $3.2 \times 10^6$ N/m
  - Fz: $3.9 \times 10^6$ N/m
  - Mx, My: 4700 Nm/rad
  - Mz: 4600 Nm/rad
- **Mechanical overload**: All axes

Exceeding the overload capacity will permanently damage the sensor. * of the measuring range

**ELECTRICAL SPECIFICATIONS**

- **Input voltage**: 6-28 V DC
- **Max power consumption**: 2 W
- **Electrical interface**: RS-485

RS-485 to USB converter provided (RS-485 to RS-232 also available)