

(3FT2000)

3-axis F/T Sensor

Foot-mounted sensor for multi-force & ground reaction measurement



3-axis F/T sensor (3FT2000)

- ✓ Mounted on the ankle of a humanoid robot to **measure forces and torques along 3 axes** (Fz, Mx, My).
- ✓ **Accurately measures** the load and posture of the robot's foot, enabling stable walking.
- ✓ **Compact design** capable of measuring forces up to 2000N, suitable for various joints and ankle applications in humanoid robots

APPLICATION

- ✓ Humanoid Robot

Index	Unit	3FT2000
Operating Voltage	VDC	5
Max. safe excitation voltage	VDC	12
Nominal force range	N	2000
Nominal torque range	Nm	100
Dimensions	mm	65(D)x 21(H)
Sample rate	Hz	1000
Interfaces	-	CAN
Wire	-	For User: CAN_H / CAN_L / VCC / GND

How AIDIN ROBOTICS' 3-Axis F/T Sensor Measures?

Compact & Robust 3-AXIS F/T Sensing

- ✓ AIDIN's 3-axis F/T sensor measures force on one axis (Fz) and torque on two axes (Mx, My). It **accurately detects** forces and torques
- ✓ This **enables stable humanoid walking**, providing precise sensing for balance and motion control



AIDIN ROBOTICS Sensor Lineup for Humanoid Robots

