6 Axis F/T Sensor

Cutting-Edge Field Sensing Technology



Miniature 6-axis F/T sensor (AFT-MINI)

- ✓ The world's smallest force/torque sensor
- ✓ All-in-one type sensor without any external amplifier
- Capable of being mounted on a narrow space (Gripper, Robot hand's fingertip, etc)

APPLICATION

- Gripper, Robot hand, small-sized automation assembly
- haptic equipment, medical device, VR equipment



Smart 6-axis F/T sensor (AFT200)

- A force torque sensor with fringe effect technology based on capacitance measurement
- **V** High-precision force measurement with high versatility
- ✓ High data sampling rate of 1 kHz
- Designed to perform task teaching, force control, and collision detection in Cobot

APPLICATION

- Collaborative Robot, Industrial Robot (Ex, Rainbow Robotics, Neuromeka, UR etc)
- 💙 AGV / AMR
- Automated equipment or robots requiring force control function such as welding, sanding, and grinding

Index	Unit	Value (AFT20)	Value (AFT50)	Index	Unit	Value (AFT200-D80-C/EN/EC/RS)
Dimension	mm	D15 * H10.5	D15 * H10.5	Dimension	mm	D80 x H21.5
Force Range	Ν	20	50	Force Range	N	200
Torque Range	Nm	0.1	0.25	Torque Range	Nm	15
Weight	g	3.2	3.2	Weight	g	236
Maximum sample rate	Hz	100	100	Maximum sample rate	Hz	1,000
Digtial Communication		CAN	CAN	Digtial Communication		CAN, EtherNET, EtherCAT, RS485

AIDIN ROBOTICS

Why AIDIN's F/T Sensor?

AIDIN ROBOTICS' **F/T sensors** measure multi-axis forces and torques, adapting to various environments and temperatures for maximum convenience and efficiency





