SCHUNK

Robot+PLUS
Force/Torque Sensor FTS

Precise. Compact. High-resolution.

Hand in hand for tomorrow

Force/Torque Sensor FTS

The 6-axis force/torque sensor FTS combines highest precision with flexibility and reliability. Whether for quality control, process monitoring, or grinding and assembly processes – the FTS ensures maximum efficiency and process reliability in automation.

Your added value:

+ Maximum precision
The strain gauges of the FTS detect the mechanical deformation of the sensor body and convert it into high-precison signals in all six degrees of freedom (Fx, Fy, Fz, Mx, My, Mz)

+ Seamless integration
The interface box with the communication interfaces EtherNet/IP, EtherCAT and PROFINET enables simple and flexible integration into customer network topologies

+ Intuitive commissioning
The SCHUNK Control Center simplifies commissioning thanks to the user-friendly interface and creates synergies with other SCHUNK products

Maximum precision in all six degrees of freedom

Robust sensor body

The high rigidity ensures excellent measurement accuracy and durability, even in dynamic applications

Simple assembly

Thanks to standardized ISO mounting patterns on the tool side and adapter plates on the robot side, the FTS can be mounted quickly and easily
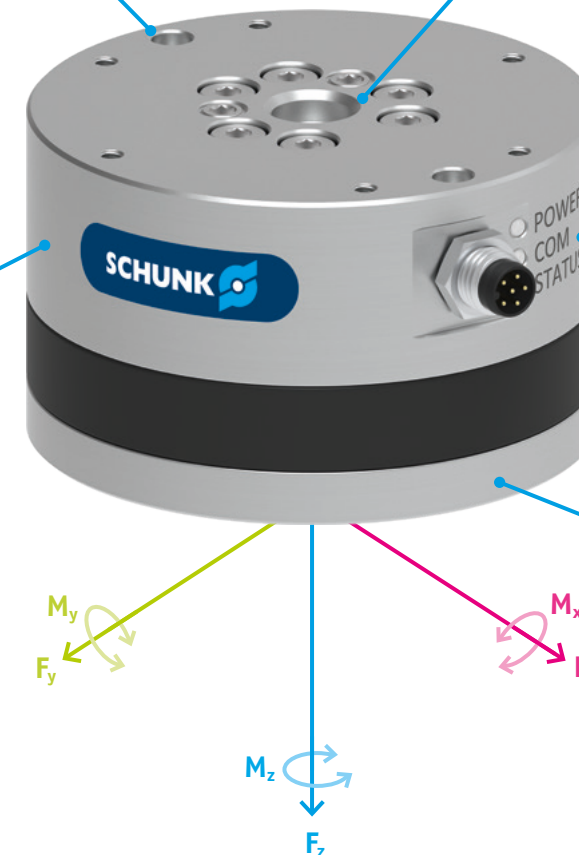
Visual condition monitoring

Integrated LEDs for power, communication and status simplify condition monitoring

Reliable protection

Thanks to protection class IP67, the sensor is suitable for use in demanding environments
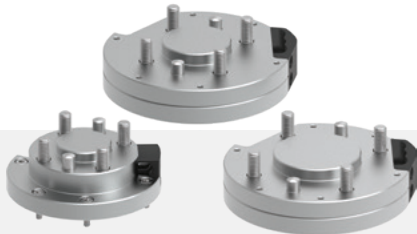
Maximum flexibility

With nine sizes and large measurement ranges (Fxy: 125–16,000 N, Fz: 300–32,000 N, Mxyz: 4.5–2,800 Nm), the series offers the right solution for any application
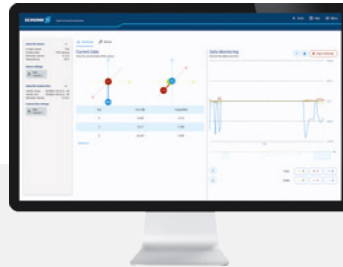
Fast. Simple. Ready to use.

Commissioning of the FTS is especially user-friendly. Thanks to standardized ISO mounting patterns and adapter plates, mechanical installation is done fast and precise. For software integration, the SCHUNK Control Center provides an intuitive platform that enables straightforward parameterization, diagnostics, and data visualization.

Thanks to standardized ISO mounting patterns and adapter plates, the FTS can be integrated quickly and seamlessly.

The SCHUNK Control Center fascilitates parameterization and ensures smooth integration into existing systems.

The interface box is available with the communication interfaces EtherNet/IP, EtherCAT and PROFINET and, optionally, with protection class IP67.

Interested?

Learn more about the versatility and precision of the FTS and get expert advice tailored to your application! Feel free to contact us.

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