

Product Line for Process Instrumentation and Product Testing

Single-Component Sensors

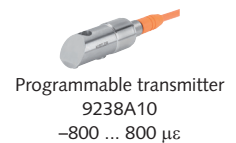
Piezoelectric Force Sensors

- Direct force measurement
- Wide measuring range
- High rigidity, fast response
- Easy installation
- High sensitivity
- Compact design



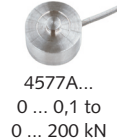
Piezoelectric Strain Sensors

- Indirect force measurement
- High sensitivity
- Easy installation
- Excellent retro-fit solution



Strain Gage Load Cells

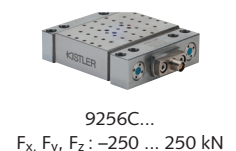
- Static loads



Application Areas: Press fitting, crimping, clinching, stamping, punching, staking, bonding, material testing, impact testing and welding force monitoring, product testing

Multicomponent Force Sensors and Measuring Platforms

- Wide measuring range
- High rigidity
- Low crosstalk
- High sensitivity
- Compact design
- F_z , F_y , F_x
- Welding Force Measurement



Application Areas: Product testing, process development machining forces and Welding Force Measurement

NC Joining Systems

- High measuring accuracy dual range piezo sensor resp. strain gage force sensor for Type 2153A...
- Force or Force-Distance control
- Repeatability, <0,01 mm
- High velocity, up to 300 mm/s
- Low maintenance



Application Areas: Precision assembly and joining tasks in automated production plants

Torque Sensors

Rotating Torque Sensors

- Strain gage system
- Integrated electronics
- Non-contact signal transmission (except Type 4501A...)
- Optional rotational angle or speed measurement



4501A...
0 ... 2 N·m to
0 ... 1 000 N·m



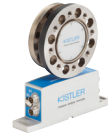
4502A...
0 ... 0,5 N·m to
0 ... 1 000 N·m



4520A...
0 ... 1 N·m to
0 ... 1 000 N·m



4503B...
0 ... 0,2 N·m to
0 ... 5 000 N·m



4550A.../4551A...
0 ... 100 N·m to
0 ... 5 000 N·m

Reaction Torque Sensors

- Piezoelectric system
- Compact with wide measuring range
- High sensitivity, fast response
- High interference immunity
- Central bore to accept shafts



9329A ... 9389A
-1 N·m ... 1 kN·m

available also as 2-component sensor
 F_z , M_z (Type 9345B, 9365B)

Application Areas: Engine and electric motor testing, torque to turn, nut runners, drag torque, calibration, product testing and test stands

Process Monitoring & Visualization

- In-process monitoring
- X-Y monitoring $F(x)$, $M(a)$, $F(t)$, $M(t)$
resp. $y(x)$, $y(t)$, $x(t)$, $y(x,t)$
- Digital I/O
- TCP/IP Ethernet interface
- Data exporting via Fieldbus
- Multiple input signal types



maXYmos BL
5867B...



maXYmos TL/NC
5877A..., 5847A



4700B...

Application Areas: Press fitting, component insertions, riveting, crimping, clinching, forming, bonding, material testing and torque/angle, product testing

Other Sensors and Accessories

- Pressure
- Acceleration
- Displacement electronics and cables
- Calibration equipment
- Force and welding verification kits
- Data collection and analysis software



Pressure



Acceleration



Laboratory
electronics



Industrial
electronics

Support and Services

- Consulting and engineering
- Commissioning and configuration
- Customer training and instruction
- Modification, repair and spare parts
- Kistler calibration services
- Web services



Kistler offers a wide range of product and application support and services for our products.