



## Intelligent multi-axis sensing.

The KMS 40 is a fully integrated six-axis force/torque sensor. For a simple integration into robotic applications, the KMS 40 comes factory calibrated to providing its measurement data directly in SI units. Its compact dimensions, the generous centre hole as well as the ISO robot flange on both sides make the KMS 40 easy to integrate in your application. The measurement range of 120 N and 3 Nm makes it a perfect fit for service robotics, small industrial robots and human-robot collaboration.

### Network ready

The integrated Ethernet interface provides the direct link between the KMS 40 and existing networks. Thanks to the self-explaining web-based configuration interface, setup and diagnostics are easy and intuitive. Communication and data exchange are based on a powerful and easy-to-use text-based command protocol.

### Flexible and Extendable

The powerful Lua script interpreter of the KMS 40 allows the implementation of application-specific features such

as special filtering, data processing or recording directly on the sensor. For this purpose, the configuration interface of the KMS 40 provides a built-in script editor. The integrated memory card can be used to store the scripts as well as acquired measurement data, providing a maximum level of flexibility.

### High Performance and Reliability

With a frame rate of up to 500 frames per second, an absolute accuracy better than 1.5% and a repeatability better than 0.5% the KMS 40 delivers highly precise measurement data while still being able to fulfill the requirements on robustness and reliability of even demanding industrial applications.

### Applications

- Force controlled assembly
- Automated haptic testing
- System Monitoring and Quality Control
- Service Robotics and Human-robot collaboration

