

torqXis® Sensoren

Simultaneous measurement of mechanical parameter in the drive train



Specification

- Torque range 50 up to 3000 Nm
- Lateral force range 800 up to 30000 N
- Measuring accuracy better than 2 %
- High sample rate 1 kHz
- Compact design – easy integration

Customers benefit

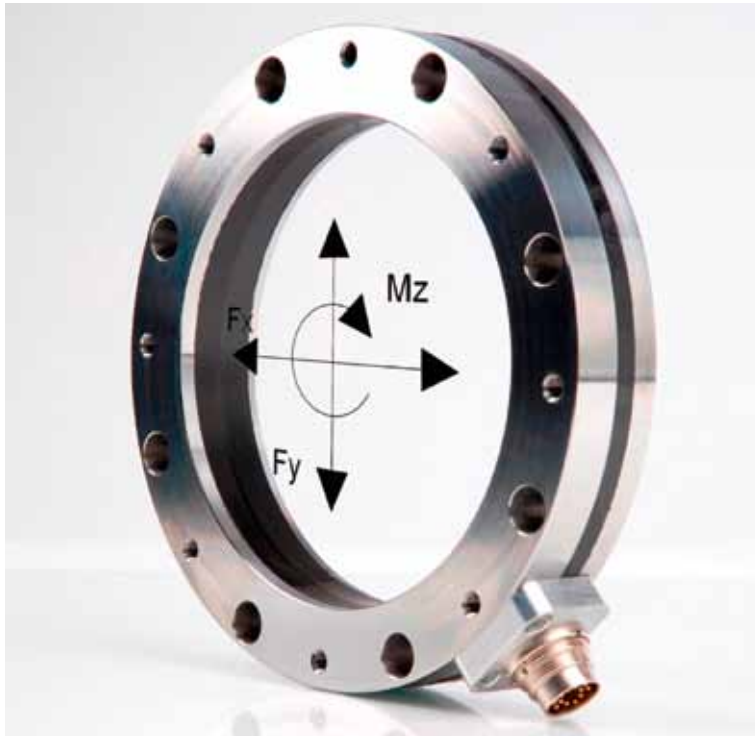
- Cost savings by the optimal drive conception
- Identify real fitting loads
- Increase machine availability
- Preventive warning system for tool wear
- Demand-oriented maintenance – increased productivity

Overall size

	SFR004		SFR010		SFR025		SFR050		SFR110	
Measurement range torque [Nm]	50	100	300	250	800	500	1500	1500	3000	
Measurement range lateral force [Nm]	850	1500	4500	2500	10000	5000	15000	10000	30000	

For detailed technical data sheets, please visit www.wittenstein-sensors.com or contact us.
If measurement range is not available – for customer specific sensor solutions please contact us.

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Application

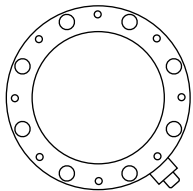
torqXis® sensors are used for applications where a real fitting load profile in the drive train must be measured, understood and/or controlled. They are used on test stands, by industrial robot manufacturers and in mechanical engineering.

torqXis® sensors are an integral component as a development tool for an optimal drive conception, as a guard for important machine parameters or as a control circuit component for dynamic applications. Thanks to the simultaneous measurement of reaction torque and force, the torqXis® sensors are highly innovative and provide deep insight into the drive train.

Mechatronic sensor concept

Measuring body SFR

torqXis® sensor SFR measures simultaneously torques and lateral forces using strain gauge technology.



Components



Centering device
SFR...- VOR - ZT



Spacer ring
SFR...- DIS -...

Cable CASIGN
... - 006
0,6m

Analog signal
0.2 mV / V

Evaluation processor unit (EPU)

The EPU is used to acquire, store and process the measurement data.



Cable
CASYST ...

Supply 24..40 V

Voltage interface
0..10 V

Current interface
0..20 mA

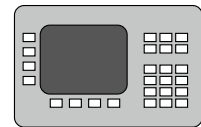
Field bus

RS 232 / RS 485

Mini USB - USB

Environment

Power supply / PLC



Software for analysis
torqXis® Software



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www.wittenstein-sensors.com

WITTENSTEIN AG · Trutwis · CH-7214 Grüşch · Schweiz
Tel. +41 81 300 10 30 · info@wittenstein-sensors.com

