

Understand Monitor Control



torqXis® Sensoren

Simultaneous measurement of mechanical parameter in the drive train



Specification

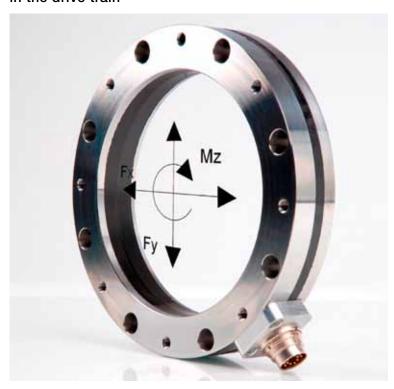
- · Torque range 50 up to 3000 Nm
- · Lateral force range 800 up to 30000 N
- · Measuring accuracy better than 2 %
- · High sample rate 1 kHz
- · Compact design easy integration

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 [N]	850	1500	4500	2500	10000	5000	15000	10000	30000	

Simultaneous measurement of mechanical parameter in the drive train

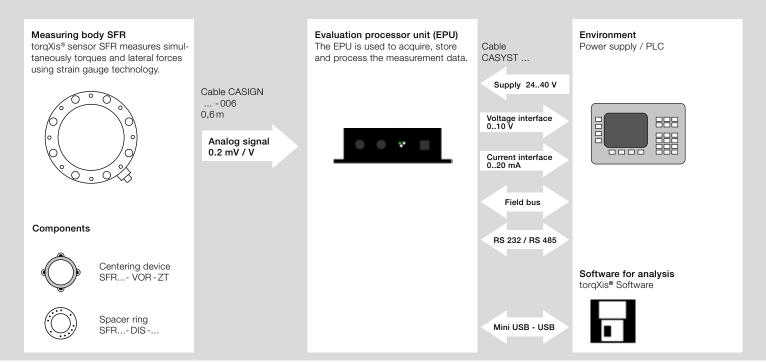


Application

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 an 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



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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www.wittenstein-sensors.com





Understand Monitor Control



torqXis® light Sensor

Innovative measurement in the drive train



Specification

- · Torque range 50..3000 Nm or
- · Lateral force range 800..3000 N
- · Measuring accuracy better than 2 %
- · High sample rate 1 kHz
- · Compact design easy integration

Customers benefit

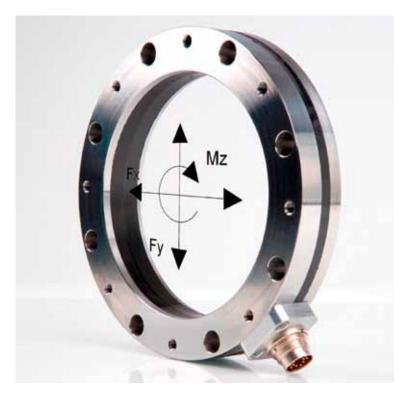
- · Cost savings by the optimal drive conception
- · To know about real fitting loads
- · machine availability increase
- · Preventive warning system for tool wear
- Demand-oriented maintenance increased productivity

Overall size / type for Measurement torque										
	SFR004	SFR010		SFR025		SFR050		SFR110		
Measurement range torque [Nm]	50	100	300	250	800	500	1500	1500	3000	

Overall size / type for Measurement lateral force										
	SFR004	SFR010		SFR025		SFR050		SFR110		
Measurement range lateral force [N]	850	1500	4500	2500	10000	5000	15000	10000	30000	

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Measurement of torque or lateral forces

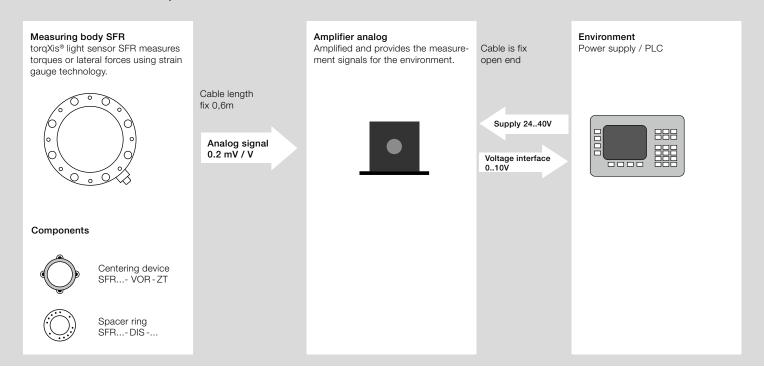


Application

Fundamentally, torqXis® light sensors are suitable as a guard in series applications. Thanks to the accurate detection of the lateral force or torque in the drive train, torqXis® light sensors allow the drive characteristics in continuous use to better understand, and thereby increasing, machine availability. As well, torqXis® light sensors aide in demand-oriented maintenance.

These sensors can be integral as a development tool for an optimal drive or as a control circuit component for dynamic applications. Thanks to the measurement of reaction torque or force, the torqXis® light sensors are the optimal innovation addition and give a deep insight into the drive train.

Mechatronic sensor concept



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