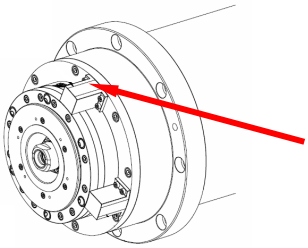
Number :	**ZTDL0020.DOC**	**Technical Data Sheet**	FISCHER 3360 Herzogenbuchsee
Index:	B		
Prepared :	31.10.2008 / ZB		
Inspected :	14.08.2009 /		
Released :	RR14.08.2009 /		
Changed :	RR15.06.2009 / ES		

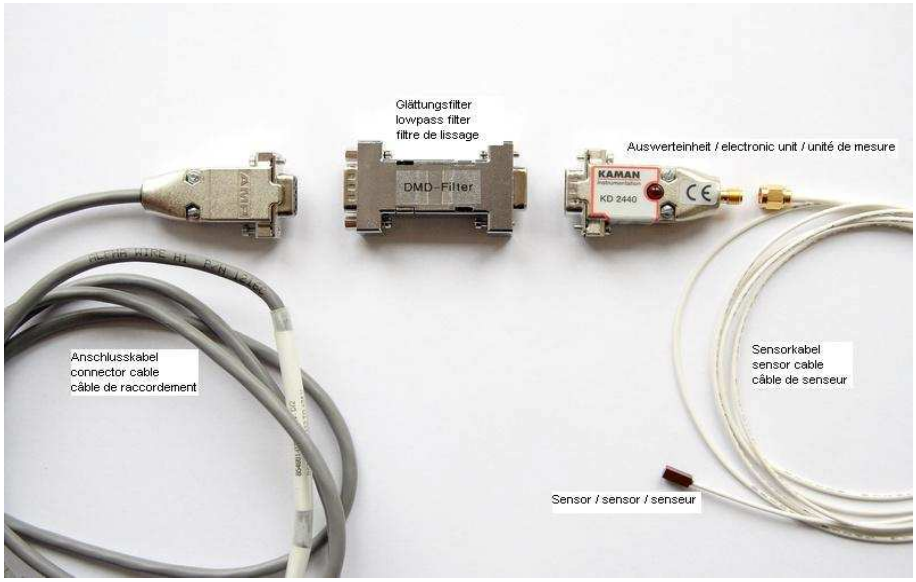
DMD (KD2440) extension sensor

The DMD (displacement measuring device) was developed for measuring the extension of high frequency milling spindles. The system enables the machine's CNC controller to actively compensate for the axial extension of the spindles.

The DMD measuring system works on the eddy current principle. A sensor integrated in the tool spindle is monitored by an external electronics unit via the connection (DB9 cable). All of the sensor-specific data needs to be saved in the CNC. The system requires recalibration after the spindle has been changed.

Installation position of the DMD (KD2440) in the spindle





External DMD version

Effective range		100 µm
Linearity (over the entire range)		No linearization
Resolution		1 µm
Temperature stability	Sensor	±0.11 % o.r./℃
	Controller	±0.11 % o.r./℃
Temperature range	Sensor	0 – +60℃
	Controller	10 – 50℃
Interface		0.2 – 22 VDC
Power supply		+24 VDC stabilized
Controller protection rating		IP 40
Cable length, total		Approx. 1.5 m

o.r. = of the range

Changes:	
Index:	Change:
B	Designation „Short Description“ changed into „Technical Data Sheet“