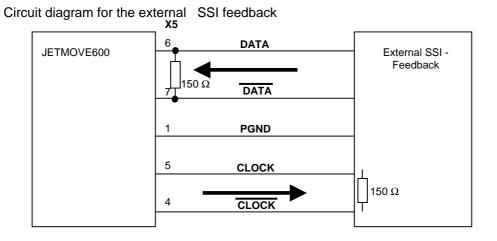
## **Application Note**



## Positioning with external SSI – Feedback

Settings for the external SSI – Feedback:

(a terminal program or the terminal- from the MMI is necessary)

DIS		Disables drive by the software
EXTPOS 1		Position feedback $\rightarrow$ by external feedback
GEARMODE 7		choice of the measurement system $\rightarrow$ SSI
ENCMODE 2		Emulation mode of the ROD / SSI
		(for GEARMODE=7 always 2 with SSI – feedback )
SSIGRAY 0	or 1	Data format of SSI protocol (0=binär/1=gray)
SSIINV 0	or 1	transmission first MSB (=0) or LSB (=1)
SSIMODE 0		Alarm bit at first (=1) last (=2) or without (=0)
SSIOUT x		x = Data bits +1
EXTMUL y		Internal Multiplicator:

 $2^{z}$ 

 $y = \frac{1}{Feedback \_resolution \_in \_increments}$ 

z = PRBASE ( Default 20, optional 16 )

SAVE COLDSTART saves data to EEPROM restarts the controller to activate the changed parameters

## **Application Note**

## How to set the reference point

A reference motion task is not possible, because the feedback system is an absolute measurement system.

To set the reference

- Read out the actual position with the command PFB and the terminal window or a terminal program.
- > Set command **ROFFS** (with this value and inverted sign).
- > Save this data with command SAVE and restart the drive with command COLDSTART.
- > **PFB** should show the value 0 now .