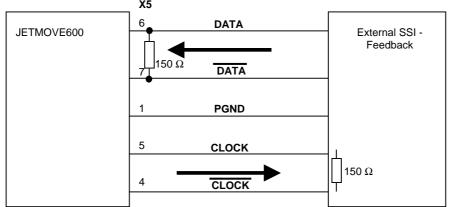
Application Note

Date: 05.02.2001

Positioning with external SSI – Feedback

Circuit diagram for the 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 → by external feedback

GEARMODE 7 choice of the measurement system → 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 = Data bits +1

EXTMUL y Internal Multiplicator:

$$y = \frac{2^{z}}{Feedback_resolution_in_increments}$$

z = PRBASE (Default 20, optional 16)

SAVE saves data to EEPROM

COLDSTART 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.