

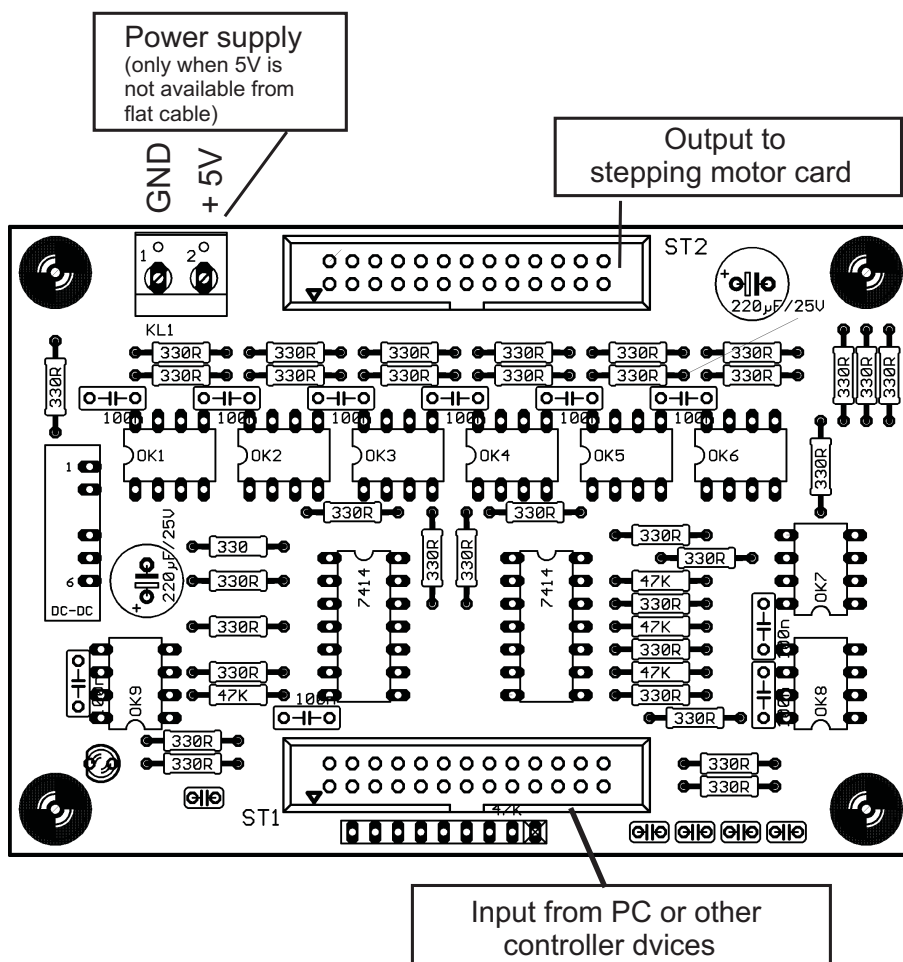


Optocoupler card for printer port

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The optocoupler card is connected between printer port and CNC-control. This board makes possible electric isolation of signals between PC, control devices and driver. All signals and in-/outputs(e.g. reference switch) of the stepping motor control device are separated. The input signals (step and direction) are amplified by a Schmitt trigger chip. The separated in-/outputs require individual power supply, which is enabled by an onboard 5V DC/DC converter. I.e. another power supply is not necessary.

With our parallel interface card and the NC-Step interface/3D-card, 5V power is supplied on pin 26 of the ribbon cable. When using different electronic devices for your stepping motor, 5V(300mA) must be provided on the connector clamp. The green LED indicates external and internal power supply.



Signals on the flat cable

26 pin Flat cable	Signal	Output direction stepping motor card
1	Spindle	Output
2	cooler	Output
3	Dir X	Output
4	End C	Output
5	Clock X	Output
6	Boost	Output
7	Dir Y	Output
8	Sleep	Output
9	Clock Y	Output
10	Gnd	Output
11	Dir Z	Output
12	Gnd	Output
13	Clock Z	Output
14	Gnd	Output
15	Dir C	Output
16	Gnd	Output
17	Clock C	Output
18	Gnd	Output
19	End Z	Input
20	Gnd	Output
21	E-stop switch	Input
22	Gnd	Output
23	End Y	Input
24	Gnd	Output
25	End X	Input
26	+5V	Input

Dir = Direction

Clock = step pulse

Sleep = Current lowering during stand-by (if supported by the software)

Boost = Current lifting during motor start-up (if supported by the software)

End = end-switch / reference-switch