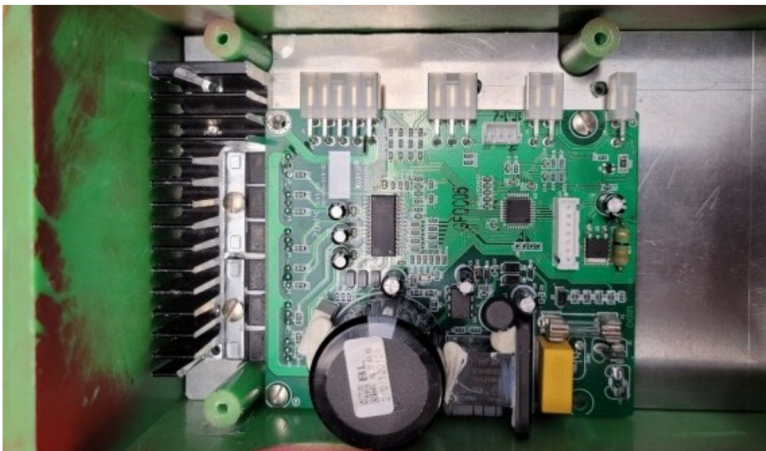


# SMC-Extension PCB 14.5

Extension of an inexpensive sewing machine motor with an additional control for easy switching on/off, changing the direction of rotation and controlling the speed.



An EDM300 lathe is intended for installation in the control housing.



Sample front panel on the lathe

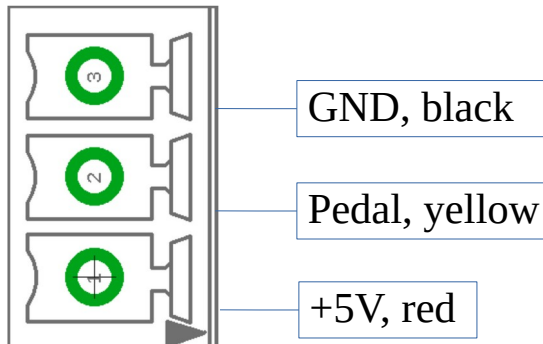




## plug assignment

### Pedalcable connector J9

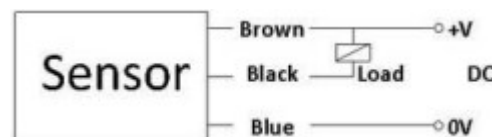
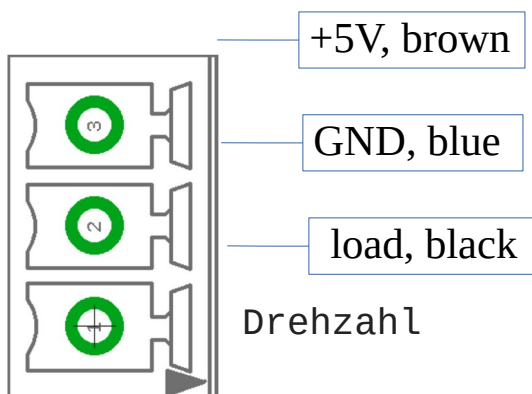
use original cable from controller



### RPM sensor cable

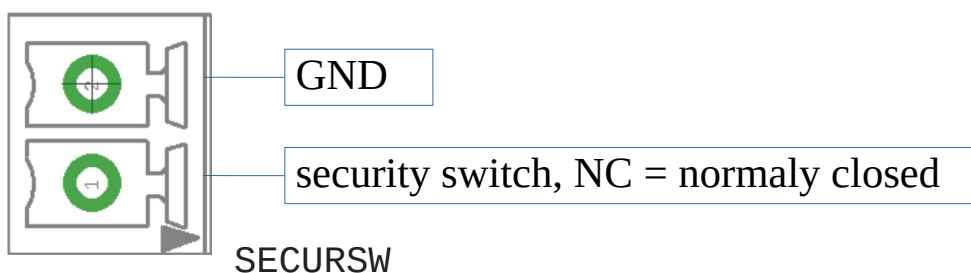
use optical or hall effect sensor

e.g. NJK-5001C, hall effect sensor NPN, 8mm



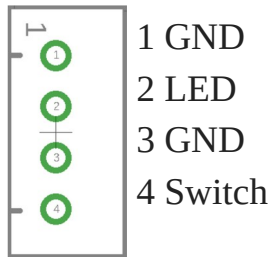
### Security switch

If motor is running and the security switch is opened, the motor stops immediately (hard stop).



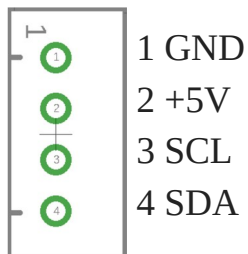
## Led + Switch Connector

use 5V Leds !

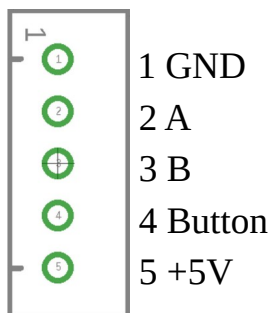


## OLED Display

There are different displays on the market, the pin assignment +5V and GND can be rotated, check it before power on.



## Rotary Encoder



## Temperature sensor DS18B20

