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.

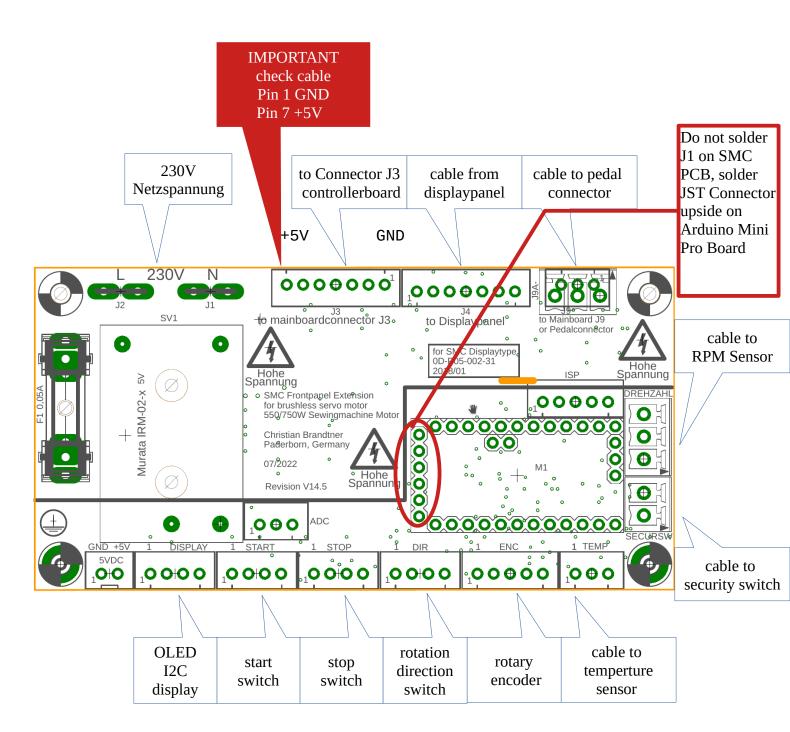


An EDM300 lathe is intended for installation in the control housing.



Sample front panel on the lathe





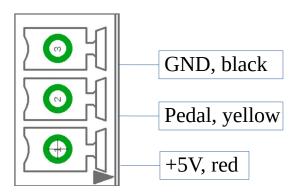
Important: for the connection from SMC-Extension to Controller Board, Connector J3, use a crossed cable!! as can be seen in the picture above. Otherwise you damage the SMC Extensionboard and Displaypanel.



plug assignment

Pedalcable connector J9

use original cable from controller



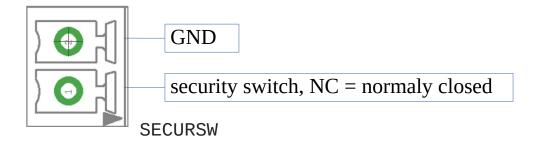
RPM sensor cable

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

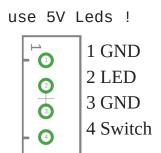


Security switch

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

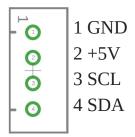


Led + Switch Connector

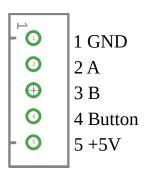


OLED Display

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



