

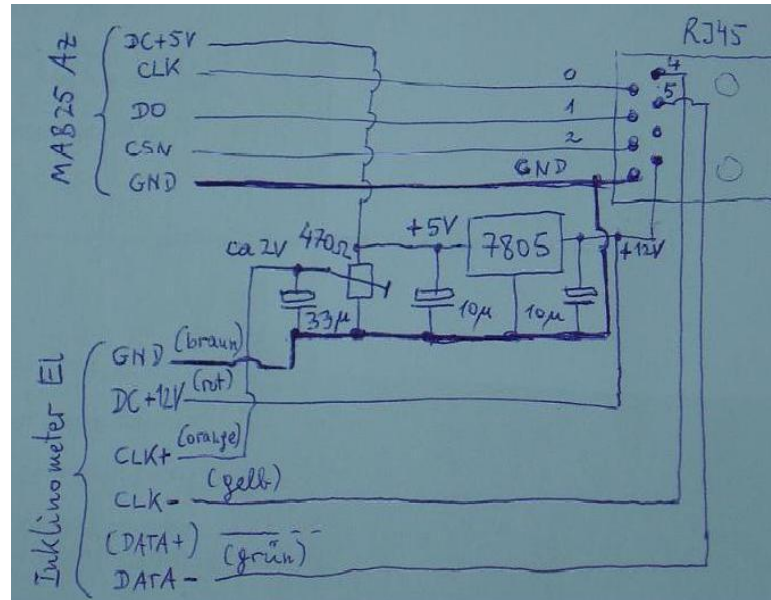
## **Elevation-Encoder with Posital Inclinometer ACS-360-1-S101-VE2-AW**

**The inclinometer can only be used in combination with the ETS25/HH12 for azimuth**

## 1. Modifications splitter:

The inclinometer works with 12V, the ETS25 or HH12 needs 5V. Therefore 12V are supplied to the LAN cable, and a 7805 generates the 5V directly at the splitter.

Scratching copper lines on the PCB is possible, but I recommend to make a new board.



## 2. Modifications interface-board: (see the colored areas at the picture below)

**white:** set jumper for 12V (but only AFTER splitter modification, otherwise you damage the ETS25 or HH12!)

**red:** 10k parallel to R19 (22k), from R19 (base Q6 BC557) 3,3k to +5V

**yellow:** 150 Ohm parallel to R20 (1k)

**green:** 10k parallel to R11 (22k), from R11 (base Q2 BC547) 3,3k to GND

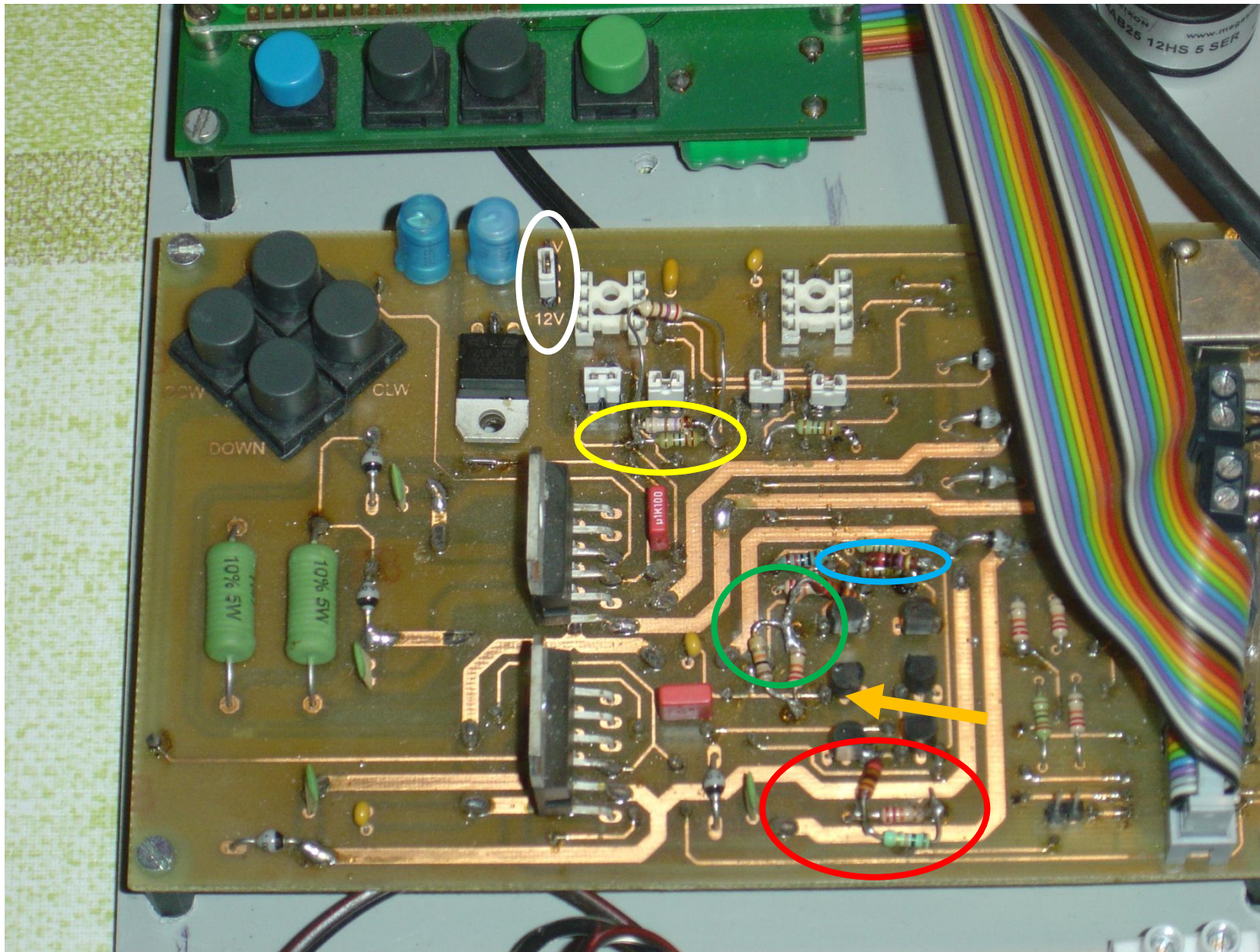
**blue:** 470 Ohm parallel to R10 (2,2k)

**orange:** from R13 (base Q1 BC547) 6,8k to GND

The exact position of the resistors can also be found on page 9 of EMEcontr\_jfl.DOC

### 3. Modification in the programm-menue

Before plugging the encoders, choose **‘ETS25-Inkl’** (before menu point A2-S-S)





Modifications on interface-board for using  
Posital inclinometer (El) together with MAB25 (Az)

You can modify an existing board as described or instead of paralleling resistors use a single one

22k/10k  $\rightarrow$  6k8 (probably single 10k working also)

$$2 \times 2 \times 470 \rightarrow 0.75 \times 17 \times 17$$

$1k \parallel 150 \rightarrow 130$  — — — — — 150

So 4 resistors to change value, additionally 2 resistors base to GND

$$\underbrace{3,3k; 6,8k}$$

## Circuit diagram motor/encoder interface board

1 resistor  
base to +5V

