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 Posttal inclinometer (El) together with MAB25 (Az)

You can modify an existing board as described or instead of parallelizing resistor use a single one

22k || 10k → 6kΩ (probably single 10k working also)
2kΩ || 4kΩ → 3kΩ

1kΩ || 1kΩ → 1.5kΩ

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

Circuit diagram motor/encoder interface board

1 resistor base to +5V

3.3k