This is a 90º model that works in the range from -45º to +45º and supplies from 0.5V to 4.5V. So you must install it with a 45º offset, in this way when the inclinometer is at -45º (horizontal antenna at 0º) the inclinometer will provide 0.5V and when the inclinometer is at +45º (antenna at 90º) the output will be 4.5V.

I highly suggest testing the mounting technic at the shack before to install in the real environment (at the external antenna)

The inclinometer includes 4 wires:

Red: Power supply (5-30Vdc)

Blue: Ground

Yellow: V1 Out

Green: V2 Out

Note: You will use Yellow (V1) or Green (V2) depending how the inclinometer was mounted.

Wiring Setup

The wiring of the inclinometer with the ARS-USB is as follows:

- Connect **Blue** cable to the ARS-USB ground (J4-3) and add a jumper with "V-" (J4-1 to J4-3)
- Supply a regulated power supply (12-13Vdc) to the inclinometer **Red** cable. It can be used the same PS used by the ARS-USB
- Connect the inclinometer feedback (V1 or V2 out) to J4-2.

Now calibrate the unit. Use the ARSVCOM (ARSConf tool) program for the correct range of Low and High limits. Adjust POT2 (elevation trimmer) in other to get around 5V at the maximum limit (90º)