IMPORTANT!

1) Flyback diode for oil pump control must be connected! Otherwise the device will fail.
2) Power ground (terminal 15) should be connected with separate wire.
3) +12V must be switched power.
4) Use 3A fuse for switched +12V and 10A fuse for Oil Pump power.
5) If you use VSS input, connect pullp resistor to VSS input (10K)
Konfiguracja

**Freq. Limit to turn off** – the frequency on VSS input that cause controller to set torque transfer to 0%

**Freq. Limit interpolation start** – the frequency of VSS input when the controller start to interpolate of torque transfer.

Here is the diagram how it work:

![Diagram showing % torque transfer vs. Vss freq.](image)

**Max oil temperature** – if the temperature of Haldex module oil is greater that this parameter the controller switch the Haldex module off, and the torque transfer is set to 0%.

**Advanced settings (only for advanced users!)**

**Step scale** – maximum number of Haldex actuator steps

**Stepper motor speed** – the speed of actuator

**Pump ctrl. Frequency** – oil pump control PWM frequency (Hz * 10)

**Pump DC** – oil pump control DC
The device monitors and logs the following parameters:

**Oil temp.** - current Haldex module oil temp.,

**Req. pos** - required torque transfer in %

**Curr. Pos** – current torque transfer in %

**Freq. In** - frequency on VSS input

**Analog #2** – voltage on analog #2 input.

**PumpDC** - oil pump control Duty Cycle,

**User switch** – state of activation switch