

# Tinley Proportional Valve Interface

Software Version 1.00

**Power input**  
 Power supply 9-32V 25mA  
 Share power from  
 Rexroth VT-VRPA2--1X/V0/T5  
 z30 = +24V  
 z32 = 0V

Input LED's light when autopilot demands motor drive. Green and Red LED's can signify starboard or port demand, but this is dependant on how the valves are connected.

Output LED's light after software filtering has been applied.

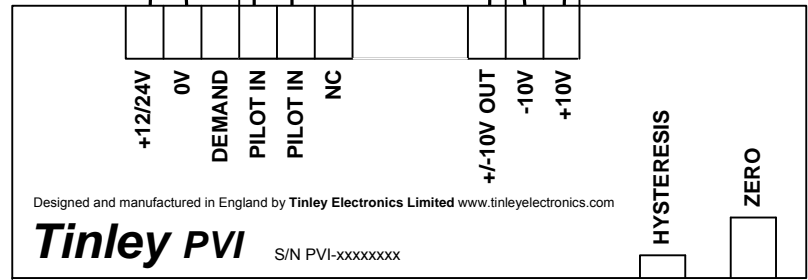
Software hysteresis/damping filter to stabilise output when used with B&G ACP pilots is factory set to 350mS. This can be adjusted from 0 to 1 second on HYSTERESIS control

Zero point for no drive has been factory set, but can be adjusted using ZERO control if necessary. This adjustment is dependant on the +10 and -10V inputs.

**Auto pilot motor drive**  
 Pilot Input Opto isolated 70mA@24V/  
 35mA@12V

**Proportional output**  
 Output +/-10V wrt 0V  
 Optional DEMAND open collector output (1kΩ)  
 Rexroth VT-VRPA2--1X/V0/T5  
 b14 = +/-10V  
 b16 = z32 = 0V

**+10V and -10V reference inputs**  
 Rexroth VT-VRPA2--1X/V0/T5  
 b32 = +10V  
 b30 = -10V



**Optional DEMAND open collector output (1kΩ)**  
 Can be used to control pump if required