



## UV1F Datasheet

**UV1F** is a microcontroller based hydraulic valve controller with a rugged aluminum enclosure specifically designed for automotive vehicle control systems. **UV1F** has multiple different PCB layouts with different kinds of inputs and outputs that make it perfect controller for almost any kind of vehicle.

As all other Usevolt controllers, the **UV1F** can be configured via CAN-bus with **UV0D** touchscreen display.

- Storage temperature range -30 ... +80 °C
- CAN 2.0B interface
- Durable aluminum enclosure
- Designed for 12V and 24V operation
- Up to 18 proportional current controller PWM outputs
- Configurable via UV0D touchscreen display



## Technical Specifications

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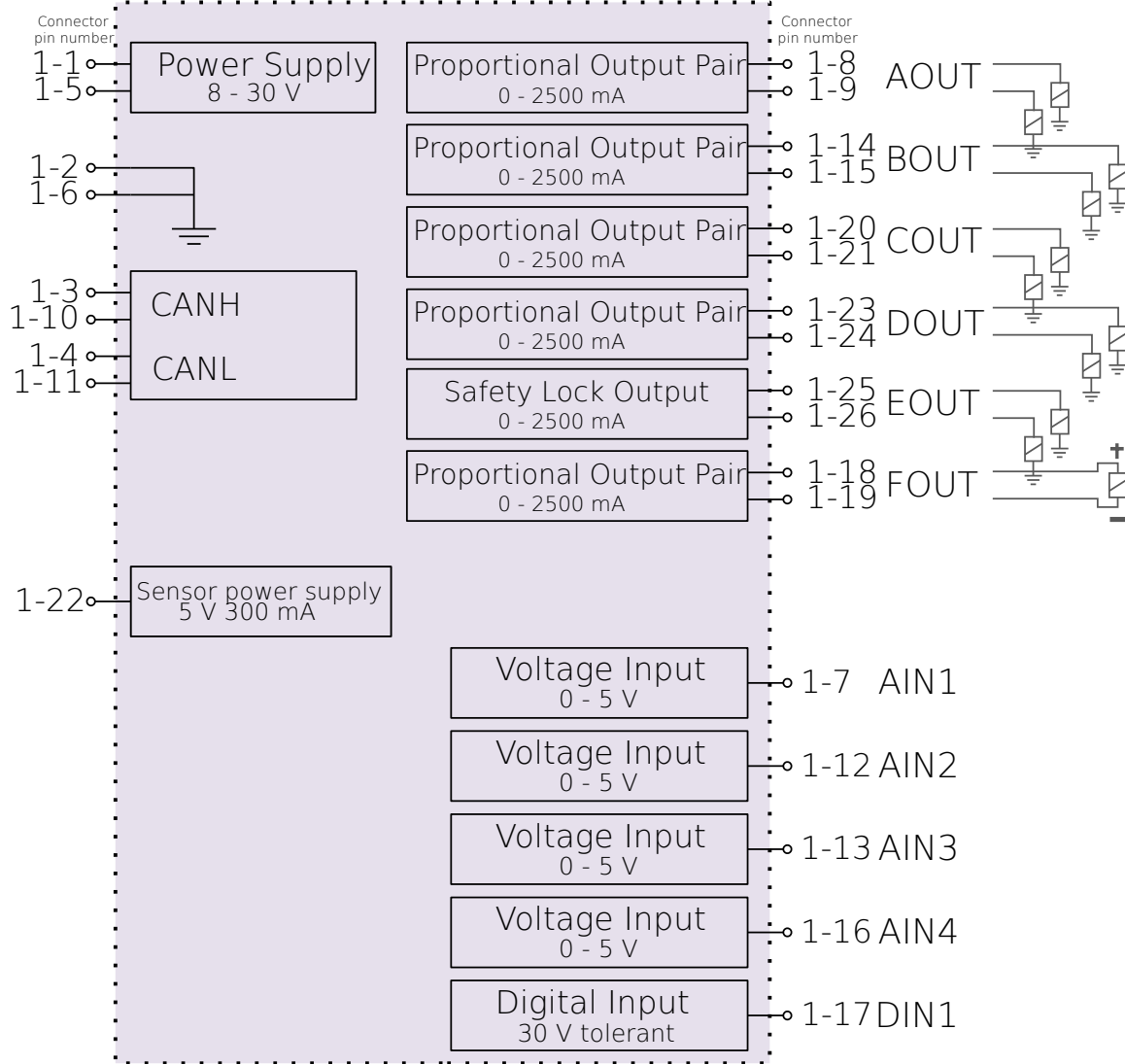
Voltage	8 - 30 VDC
Protection	Over voltage & Reverse voltage External 20 A fuse required
Weight	680 g
Current Consumption	Logic 40 mA, outputs up to 20 A
Connector	Superseal 3-1437290-8 Superseal 4-1437290-0 Golden contacts 3-1447221-4
Interface	1 x CAN-bus 2.0B
Material	Aluminum
Configuring	Via UV0D display
IP-rating	IP67
Microcontroller	32-bit ARM Cortex-M3
Memory	256 KB Application flash memory 36 kB RAM memory
Outputs	Up to 18 x proportional high-side PWM output with current sense
Output max current	2300 mA
Inputs	Up to 6 analog voltage inputs 0 ... 5 V Up to 11 digital voltage inputs 30 V tolerant

## System Diagram

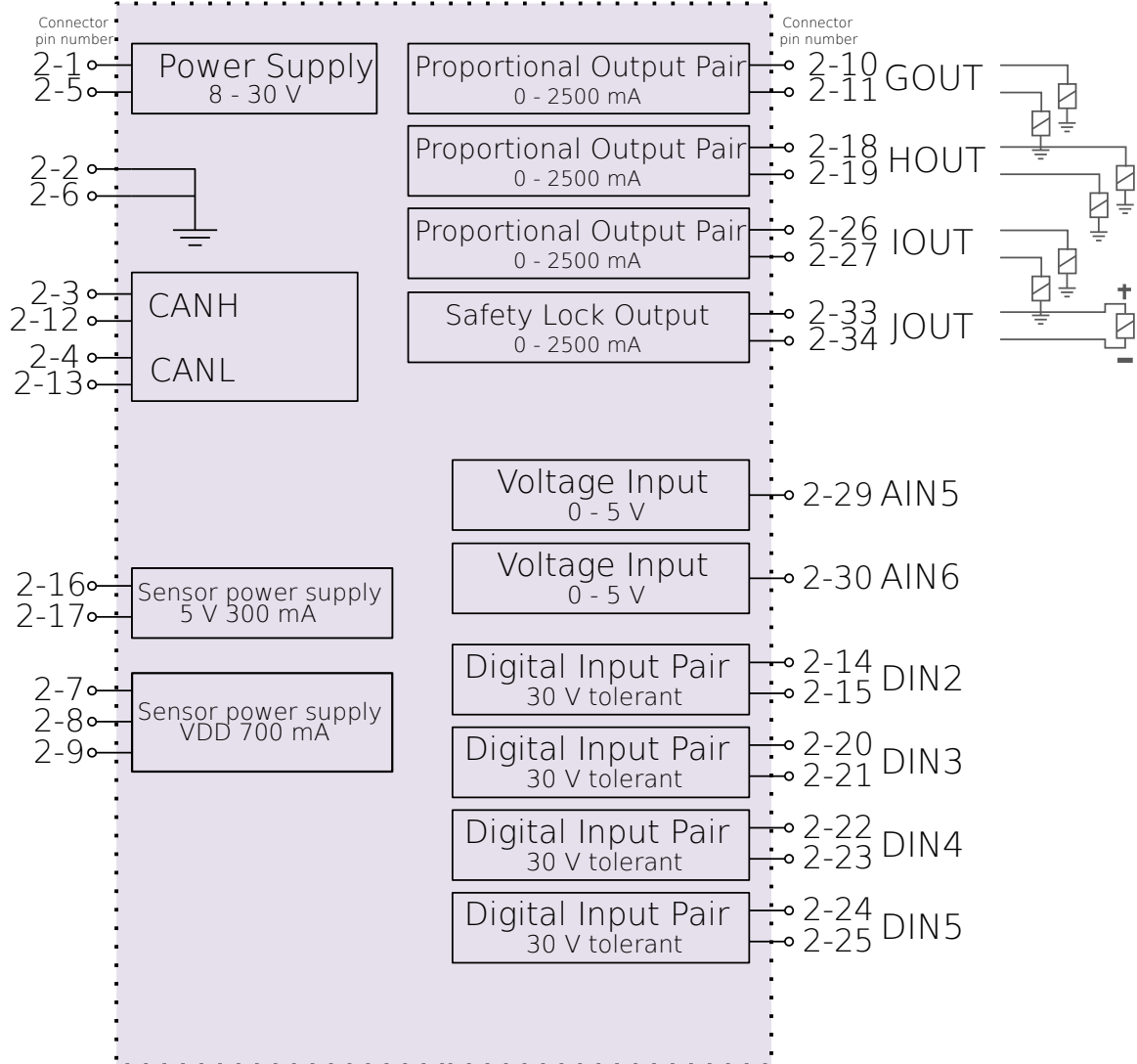
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**UV1F** hydraulic controller has multiple different versions with different inputs & outputs and pin outs. Make sure to refer to the correct system diagram.

# UV1F1 Connector 1 (26-pin)



# UV1F1 Connector 2 (34-pin)



# Physical Dimensions

