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Input Protection – CAUTION

for PH300

The input (Pin 1) of the PH300 connects internally directly to an input of a CD4066 Quad Bilateral Switch. V_{dd} , the positive supply for this chip, connects to V^+ (+5 to +12V), Pin 14 of the PH300 and V_{ss} connects to GND, Pin 8. **Normal precautions for the use of the CD4066 must be observed with the PH300 to avoid damage.** These precautions include keeping the input voltage within ($V_{ss} - 0.5V$) and ($V_{dd} + 0.5V$).

In particular, care should be taken that these conditions are not violated on power-up or power-down, or when a connector is mated or de-mated with power on.

Input protection can be provided by a current-limiting resistor ($>200\ \Omega$) in series with the input, or by connecting a diode from the input (Pin1) to ground (Pin 8), with anode grounded.