

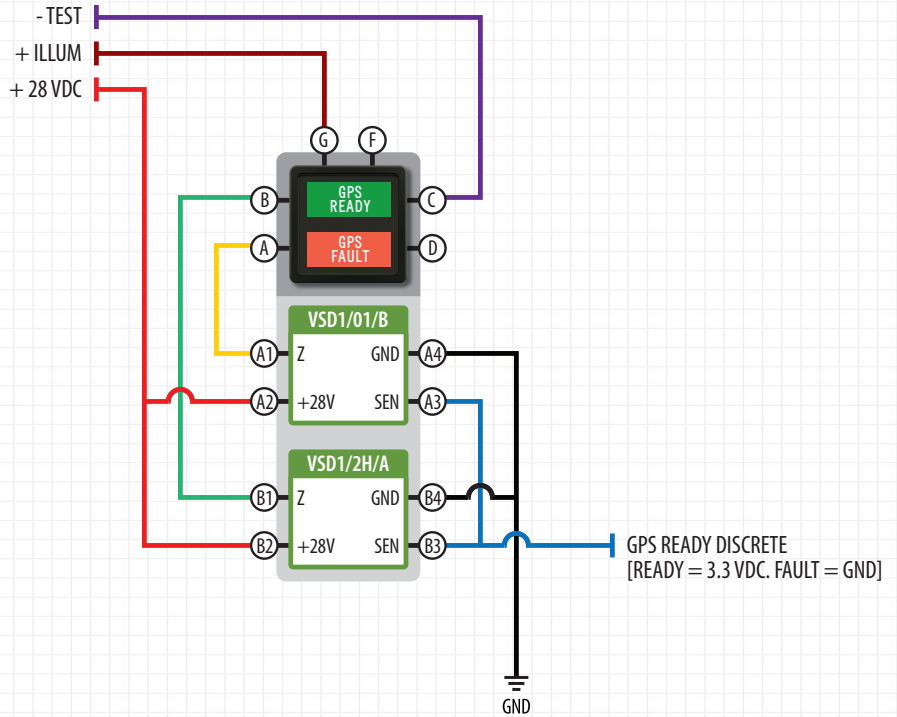
GPS Ready

This application diagram depicts a flight deck GPS status annunciator that has built-in voltage sense circuitry which is used to monitor a status input signal. Depending on the voltage level of the status input, the annunciator will indicate the active state of the GPS system and equipment.

The design uses a single annunciator that has a VIVISUN Compact Body which houses two NEXSYS Voltage Sensor (VSD1) components. The upper VSD1 is configured to output a low (ground) when the sensed input signal is below 1.0 VDC. The lower VSD1 is configured to output a low (ground) when the sensed input signal is above 2.5 VDC. The outputs of both VSD1 are high-z (open) when inactive.

The GPS status signal is +3.3 VDC when the system is ready and functioning properly and 0 VDC (ground) when there is a fault in the system. If the upper VSD1 senses 0 VDC (ground) on input SEN (A3), output Z (A1) will become low (ground) which causes the GPS FAULT (A) indicator to illuminate. This state is held so long as the status signal voltage level is 0 VDC. If the lower VSD1 senses +3.3 VDC on input SEN (B3), output Z (B1) will become low (ground) which causes the GPS READY (B) indicator to illuminate. This state is held so long as the signal voltage level is 3.3 VDC.

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