

7.2 Sensor Wiring

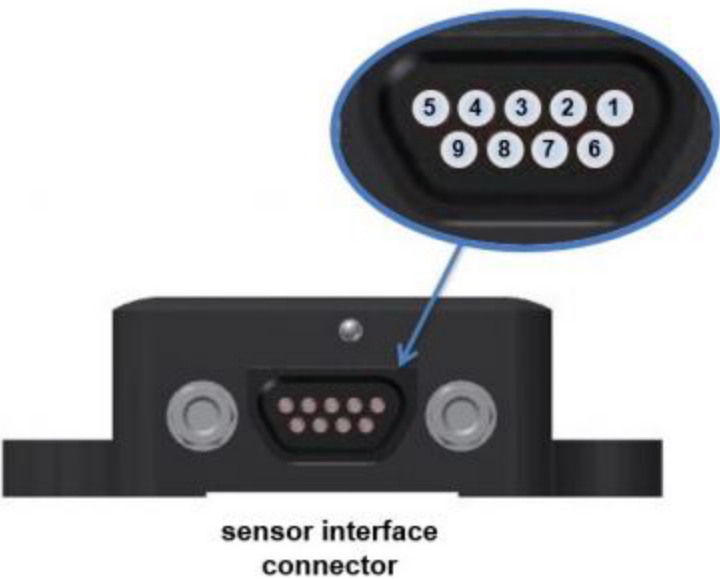


WARNING

Only use power supplies within the operating range of the sensor, or permanent sensor damage or personal injury could result. There are two input power pins available, each with different voltage ranges. Connect only one at a time. Observe connection polarity.

Sensor power and serial communications cables are available from LORD Sensing and come with the sensor connectivity kits. These cables will have the micro-DB9 connector on one end (to connect to the sensor) and either a standard DB9 on the other end (for RS232 communication) or a USB connector (for USB communications). Alternately, the micro-DB9 can be purchased from LORD Sensing with flying leads or the connector by itself can be purchased from the manufacturer (Ulti-Mate Connector Inc). *See Parts and Configurations on page 59* for a list of available options. For the cable diagram, *see Sensor Dimensions and Origin on page 64*.

The connector interface includes connections for USB and RS232 communications (only connect one), two options for sensor input power range (only connect one), and a precision hardware timing input (PPS input) for synchronizing with external timestamps. The sensor selects the appropriate serial communication (USB or RS232) on power-up based on which connection is used.



sensor pin number	signal
1	USB D-
2	USB D+
3**	+4V to +5.5 VDC
4	RS232 RxD
5	RS232 TxD
6**	+5.2V to +36 VDC
7	PPS input
8	GND
9	--

** use either pin 3 OR pin 6 for sensor power

Figure 37 -Connector Wiring