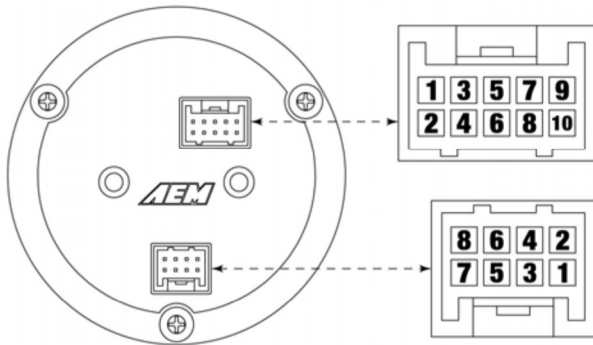


## Gauge Connections

The X-Series UEGO gauge is supplied with a Power/IO wiring harness (A) and a UEGO sensor harness (B); the harnesses are connected to the gauge as shown below. The UEGO sensor harness simply needs to be routed to the UEGO sensor whereas the Power/IO harness will require further integration into the vehicle. The minimum Power/IO connections required to operate the gauge are switched 12V (5A fuse) and ground. Please reference the diagrams and information on the provided for further detail.

**A****B**

**Connector A - Power / IO**

Pin	Color	Description
1	RED	Switched 12V Power (5A Fuse)
2	BLACK	Power Ground
3	GREEN/BLACK	AEMnet- / CANL (Optional)
4	WHITE/BLACK	AEMnet+ / CANH (Optional)
5	BLUE	Serial / RS-232 Output (Optional)
6 - 8	-	Not Used
9	WHITE	0-5V Analog Output Positive+ (Optional)
10	BROWN	0-5V Analog Output Negative- (Optional)

### Important Notes on Wiring

- Route harnesses carefully to avoid chafing or undue strain.
- Secure wiring to vehicle with wire ties paying special attention to the sensor harness routing beneath the vehicle and/or in the engine compartment.
- Take care when routing sensor harness near hot exhaust components.
- Apply strain reliefs and wire coverings as necessary.
- Use a 5A inline fuse on the switched 12V power supply line (Pin 1 - Power/IO).
- Avoid cutting or extending the sensor harness.
- Use appropriate gauge wire (20 AWG or thicker) when extending wires, especially Pins 1(Switched 12V) or 2(Ground) of the Power/IO harness.
- Ensure all connections are secure and insulated from shorts to adjacent wires and the vehicle structure. Utilize proper crimping and solder/heatshrink techniques.

**Connector B - Bosch LSU4.9 UEGO Sensor**

Pin	Color	Description
1	GREEN	Trim Resistor
2	WHITE	Heater Negative-
3	ORANGE	COM
4	-	Not Used
5	RED	Pump Current
6	BLACK	Sense
7	-	Not Used
8	BROWN	Heater Positive+