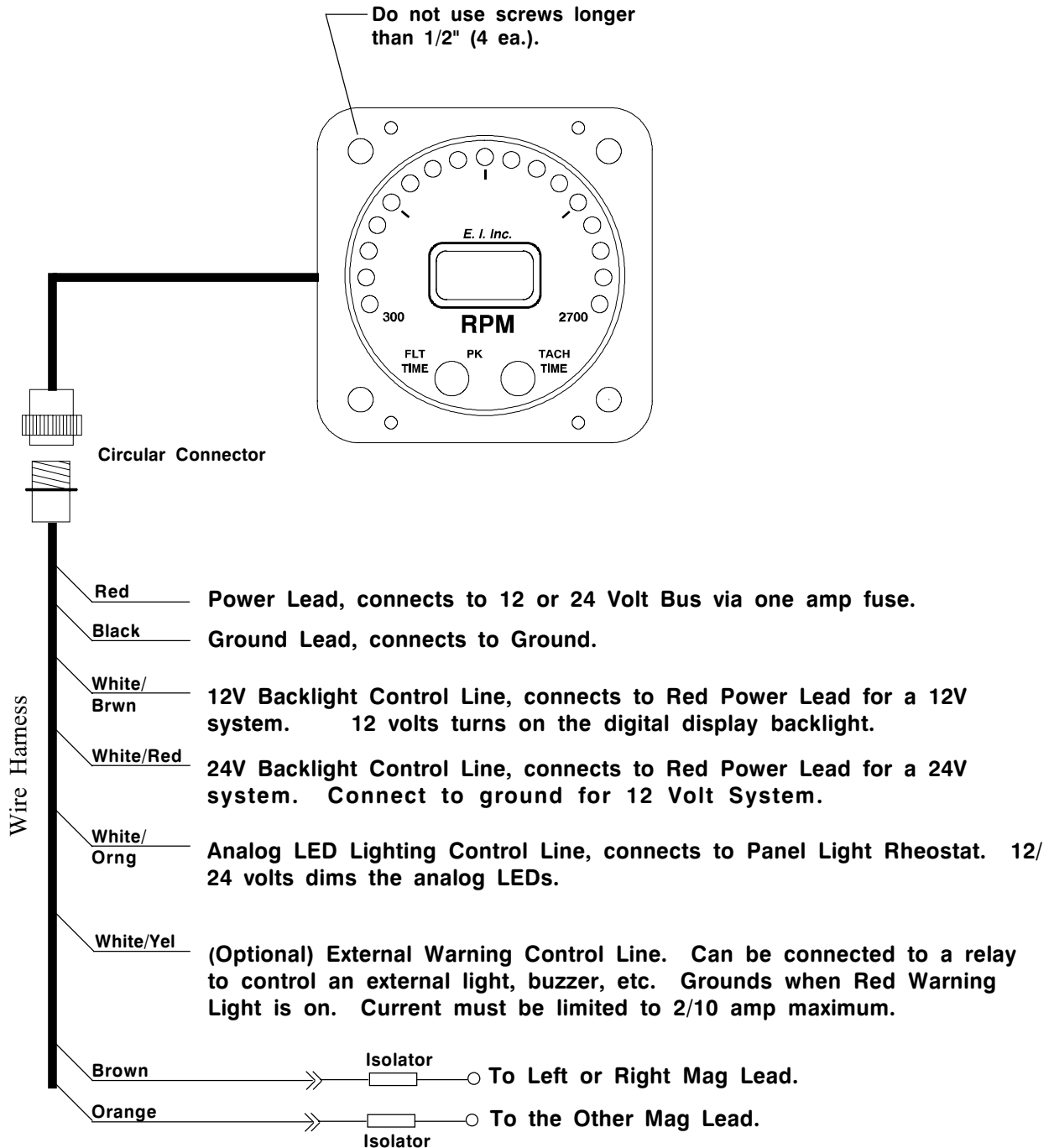


RPM (R-1)

Wiring Diagram

WD 0311911

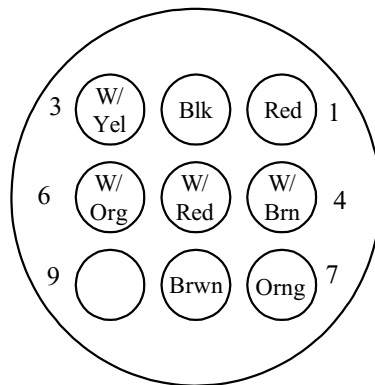


R-1 Circular Connector

Connecting Cable Harness, Back View (wire side)

OR

Instrument Connector, Front View



Note: See Wiring Diagram for hook up information.

Specifications and Operating Features

S0520911

Model:

R-1 (RPM Instrument)

Case Dimensions:

2.5" x 2.5" x 3.65" depth, 2 1/4" Bezel.

Weight:

10 Oz.

Environmental:

Meets TSO C49a.

Power Requirements:

7.5 to 30 Volts, 1/10 Amp.

Analog Display:

17 High Intensity Light Emitting Diodes (LEDs) in a 210 degree arc with Intensity Control Line available for dimming. Sequential flash test on power up. Microprocessor eliminates LED hunting (flicker).

Red LEDs:

If the Analog Display goes from a Green LED or Yellow LED to a Red LED, the Red LED will blink 20 times then go solid red. The Red Max Limit LED is always displayed at full intensity.

Digital Display:

LCD (viewable in direct sunlight), with 12 and 24 volt backlight control wires for night operation. Readings below 300 RPM will be displayed as "0000". Display will read "8888" on power up.

Accuracy:

1% in accordance with TSO C49a.

Resolution:

10 RPM.

Max Digital Range:

4300 RPM.

Update Time:

3 times per second.

Signal Pickup:

Connects to Left and Right Mag Leads through isolators. Safety insured by additional in-line isolators located in the unit. Instrument will operate on Mags, CDIs and automotive ignition systems. No cables or mechanical connections required.

Tach Time:

Keeps a running total time for RPM readings at or above 1300 RPM. Time is stored in memory for life. There are no internal batteries and power is not required to keep memory alive. Maximum reading is 99,999.9 hours. Displayed in .1 hour increments.

Automatic Flight Time:

Resets to "00.00" and starts timing when RPM reading reaches or exceeds 2000 for 10 seconds. Stops Flight Timer and holds reading in memory when RPM drops below 1200 RPM for 10 seconds. Maximum reading is 99.59 (99 hours and 59 minutes). Displayed in 1 minute increments.

Peak RPM:

Operates in conjunction with the Automatic Flight Timer. Stores the highest RPM for the flight. For an RPM to be recorded as "peak" it must exceed the last recorded peak RPM for 3 seconds or longer.

External Warning Control Line:

Grounds when any Red Warning Light is on or blinking. Current should be limited to 2/10 amp.

STC Information

The R-1 is TSO'd, STC'd and PMA'd as a primary instrument. If you have any question on which aircraft are included on our Approved Model List (AML), please call our factory.