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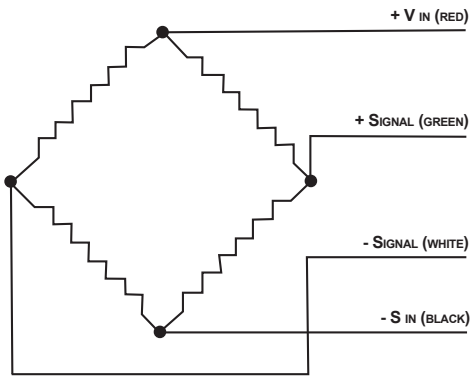
Asphalt Strain Gages

SERVICE | *at-a-glance*



General Specifications

Bridge Completion ..... Full bridge, no completion required
Gage Resistance ..... 350 Ohm
Excitation ..... up to 10 Volts
Output ..... ≈ 2 mV/V @ 1500 µstrain
Calibration Factor ..... Individually provided
Grid Area ..... 0.133cm^2
Gage Area .....1.22 cm^2 overall
Fatigue Life ..... <10^5 repetitions @ +/- 1500 µstrain
Modululs ..... ≈ 2 340,000 psi
Cell Material ..... Black 6/6 nylon
Coating .....Two-part polysulfide liquid polymer, encapsulate in silicone with butyl rubber outer core

Quality Assurance

Temperature..... -34ºC (-30ºF) to 204ºC (400ºF)
Lead Wire .....30 ft of 22 AWG braided shield, four wire

Background Information

CTLGroup's Asphalt Strain Gages (ASGs) are designed to withstand the high temperatures and compaction loads associated with asphalt pavement construction. The ASG-152 (Fig 1) is used for measuring the horizontal strain in asphalt layers whereas ASG-V (Fig 2) is used for measuring vertical strain Both types benefit from field-proven designs that use durable materials to ensure accurate long-term data collection. The full-bridge configuration used in our ASGs reduces costs by eliminating the need for expensive data acquisition hardware and signal-conditioning systems to provide bridge completion. Braided shielding protects the lead wire from electrical noise, while an Abrasion-resistant Teflon polymer coating withstands temperatures up to 205ºC (400ºF). This all leads to longer sensor life and long-term savings, by reducing redundancy in your instrumentation plan.

Figure 1 - ASG-152

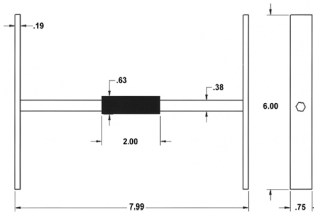
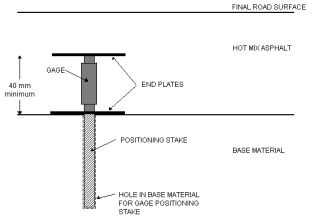


Figure 2 - ASG-V (Vertical Strain)



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