IR-TRACC Assembly w/ 90 mm Displacement

Model 6110

R. A. Denton, Inc.

INTRODUCTION

Denton has designed and manufactured an enhanced version of the IR-TRACC linear displacement transducer. The sensor is based on the initial GM IR-TRACC concept (described in GM Research Paper RND-8832 dated June 4,1998). The IR-TRACC (InfraRed Telescoping Rod for Assessment of Chest Compression) consists of a set of telescoping sections extending between two end pieces. One end piece contains a light source (emitter) and the other end contains a light sensitive receiver. Different versions of the sensor are being developed for the H-III10C, H-III6C, H-III5F, side impact dummies and generic linear displacement applications.

FEATURES

- Operational between 5Vdc to 15Vdc excitation
- Circuit protected if the excitation voltage polarity is reversed
- Nonlinearity less than 2% of full scale (0-90mm)
- Off-axis displacement error ± 2%
- Durable electrical connection between sensor & electronics
- Basic design is configurable for several displacement applications

PATENT PENDING

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