
Angular Displacement Transducer use in Throttle Control

One prominent manufacturer of industrial engines for gas emissions pumping and electric power conversion takes advantage of the precise angular measurement of a Trans-Tek ADT in throttle control.

Installed in a large industrial engine, a Model 605 ADT provides angular position feedback of the throttle arm, which can move up to 90°. The throttle arm is then linked to an internal hydraulic actuator. As the throttle arm moves, the signal from the ADT is fed into a data acquisition system. Comparing the ADT output to a predefined table of voltage vs. engine RPM allows a closed loop system to assure that the proper engine speed is maintained. This information is also used to rate the overall performance of the engine as part of ongoing product development.