

FlowScanner™ Rotary Travel Transducer

FlowScanner Rotary Travel Transducers are used to accurately measure rotary valve travel, which is essential for diagnostic testing. Rotating the shaft of the transducer produces a digital output signal.

FlowScanner Rotary Travel Transducers are end shaft operated position sensors that are typically mounted temporarily to a control valve assembly for diagnostic testing. Valve diagnostic tools, such as the FlowScanner 6000 and QUIKLOOK 3-FS, have digital input channels to allow the Rotary Travel Transducer to be utilized. Valve travel is a vital characteristic to all control valves and significantly important to accurately measure during diagnostic testing.



Features

- **High Resolution**—The 2 inch diameter encoder allows for a resolution of 0.0075 degree.
- **Compact, Rugged, Lightweight**—This industrial packaged transducer is designed to be used in a field environment. While being compact to fit into tight places and very lightweight to affix to any location.
- **Digital Quadrature Output**—The digital incremental quadrature output is a square waveform free of noise and drift. The output is viewed as pulses or counts, which are electronically counted to produce the accurate readings.
- **TEDS ‘Plug-and-Play’**—Embedded memory chips can be used to recognize and automatically set the transducer’s range, sensitivity, and calibration information. (Not used in FlowScanner 6000).
- **Compact design**—The rotary transducer allows for easier placement than prior art. Legacy encoders are large, bulky, and could not fit into tight spaces.

Figure 1. Mounted Rotary Transducer



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FlowScanner Rotary Transducer
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Table 1. Specifications

Available Configuration

Rotary Travel Transducer: P/N GE07458X022

Electrical Specifications

Input: Supply Voltage 4.75 to 28 VDC

Output: Incremental Encoder

Connection: Industrial 10-pin Circular Connector

Performance Specifications

Standard Sensitivity: 12,000 pulses per revolution

Resolution: 0.0075 degree
(using standard 4x quadrature)

Calibrated Accuracy: ± 0.0225 degree per revolution
(360 degrees)

Environmental Specifications

Storage Temperature: -25 to 85°C (-13 to 185°F)

Operating Temperature: 0 to 70°C (32 to 158°F)

Operating Humidity: 0 - 98% RH without
condensation

Sealing: IP50

Mechanical Specifications

Construction: Powder Painted Aluminum

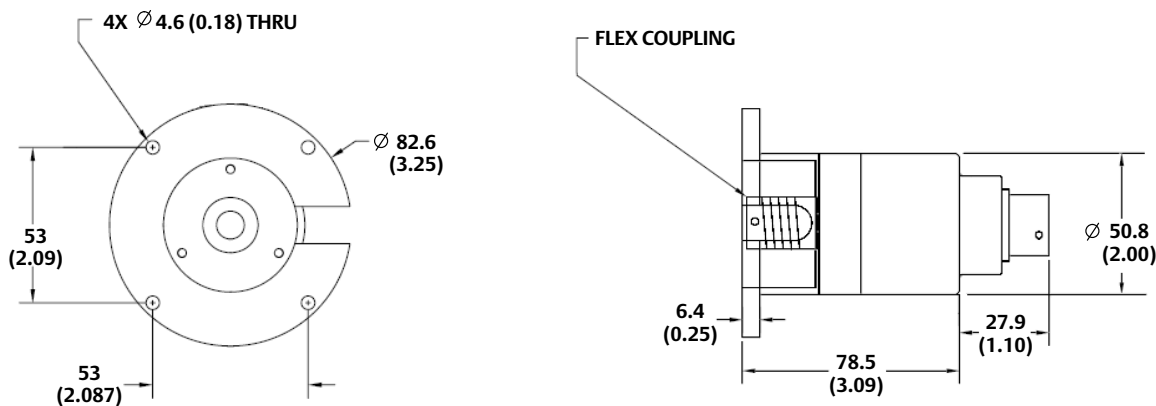
Weight: Less than 1 lb

Dimensions: see figure 2

Max Shaft Speed: 8,000 RPM

Starting Torque: 1.0 oz-in typical

Figure 2. Dimensions



mm (INCH)

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