



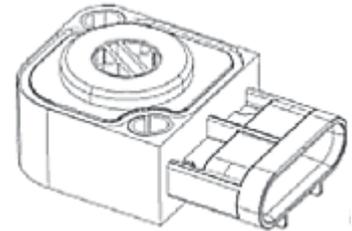
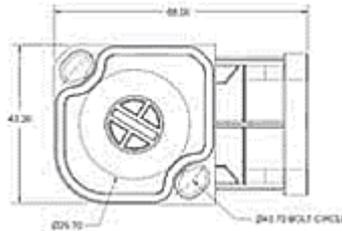
9631

Dual Output Position Sensor

Bolt-on, dual output sensor can be programmed to meet customer requirements within its 80° travel range.

The non-contacting 9631 Dual Output Position Sensor is designed for use in heavy and off-road vehicles. The sensor is RoHS compliant and operates with regulated 5V supplies. It features reverse voltage protection and is available in clockwise and counterclockwise rotation versions. Fully sealed PCB construction meets IP67 standards, making it ideal for sensing applications in:

- Agricultural equipment
- Construction equipment
- Heavy trucks
- Off-road vehicles
- Recreational vehicles
- Golf carts



The 9631 shares the rugged durability of all sensors, and is able to withstand temperature extremes and harsh environments while providing fast, dependable system response.

Count on Technologies for sensing solutions that add performance and value to products. We serve customers with advanced design and engineering, high volume automated manufacturing and on-time delivery.

Technical Specifications

PHYSICAL

- Fully "sealed", robust package suitable for automotive, agricultural, marine and industrial environments
- Small angle, dual output
- Clockwise or counterclockwise rotation available
- Programmable to customer requirements within 80° mechanical travel
- Multiple hall effect options
- Return spring available

ELECTRICAL

Specifications

	Specifications
Supply Voltage (V _s)	5.0V ± 10%

Supply Current	10mA Max
Reverse Voltage Protection	-14.0V Max. < 1 minute
Output	Programmable for slope and clamps
Independent Linearity	45° travel $\pm 1.5\%V_s$ (All Conditions) 60° travel $\pm 2.0\%V_s$ (All Conditions)
Total Error	45° travel $\pm 3.0\%V_s$ (All Conditions) 60° travel $\pm 4.0\%V_s$ (All Conditions)
Functional Electrical Range	15° - 65° (Customer Specified)
Operational Electrical Range	80° - Extended Specifications Apply
Output Modes	Analog, PWM and mix option available

MECHANICAL

Specifications

Mechanical Rotation Range	83° End-Stop to End-Stop
Spring Torque	Minimum return 15 mNm
Fixing Torque	3.5 Nm Maximum
Connector Type	Power & Signal (Metri Pack) 15397577

DURABILITY

Specifications

Rotational Life	> 2,000,000 Full Cycles
Dither	> 10,000,000 Cycles (2° Rotation)

ENVIRONMENTAL

Specifications

Operating Temperature	-40°C to +140°C
Storage Temperature	-40°C to +150°C
Environmental Tests	Automotive