



# Turbo Charger Position Sensor

The turbo charger position sensor is used in a pneumatic actuator to precisely detect the actual position of the variable turbo geometry mechanism. This leads to improved performance and reduces the fuel consumption.

The sensor / actuator can also be used at bypass valves.

# Turbo Charger Position Sensor

## TECHNICAL DATA

### Industry

Passenger Car  
Light commercial vehicles  
Trucks

### Application

Pneumatic actuator for turbochargers with variable geometry or bypass valves

### Functions

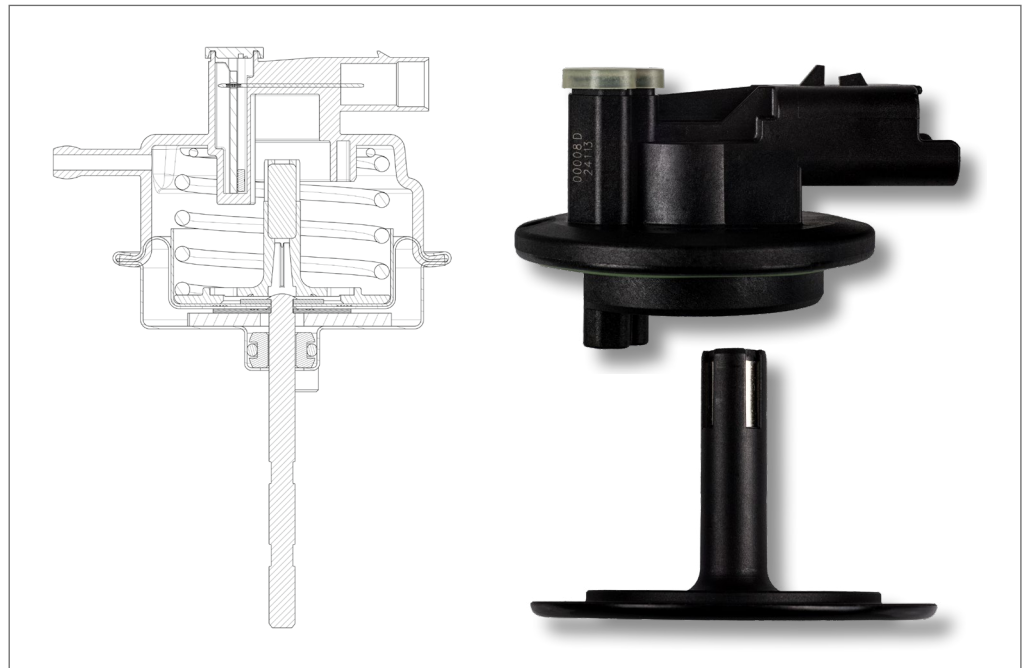
Precisely measuring the stroke of a pneumatic actuator in challenging environmental conditions

### Technology

3D Hall

### Features

- Non-contact measurement for actuators with 15 mm and 25 mm stroke. Other measurement length available on request.
- Analog or digital interface.
- Connector can be adapted to OEM needs.
- Simple design with low number of components  
-> high reliability,  
-> competitive pricing.
- Compensation of mounting / application tolerances and non-linearity through programming.
- Integration of upper actuator shell into sensor housing possible (full plastic cover).
- Packaging of magnet clip and sensor designed for automated processing.



## OPERATING CHARACTERISTICS

Output	analog or digital
Typical linearity	$\pm 2,5\%$ (absolute) $\pm 1\%$ (independent)
Supply voltage	4,5 ... 5,5 V
Overvoltage protection	up to 24 V
Reverse voltage	-12 V
Current consumption	<15mA
Temperature range	-40°C ... +160°C
Vibration	up to 40 G / 160°C
Protection class	IP6K9K



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