

## Stoneridge, Inc.,

## Transmission Range Control Module Shift-by-Wire Actuator

### **Preliminary Data Sheet**

### Features / Benefits

- Replaces the function normally controlled by the shift lever in the vehicle cabin. It can be bolted onto existing transmissions freeing up space in the cabin.
- Redundant non-contact position sensing
- High force (300N)
- Fail safe return-to-park function
- CAN/LIN Interface
- >300K Cycles



### **Performance Characteristics**

### **Electrical**

Supply Voltage: 9 - 16 VDC Max. Operating Current: 20.0 Amps (Shift Event)

<u>Mechanical</u>

Peak Force (12.6VDC, 25°C): 89.0N Positional Accuracy:  $\pm 0.75 \text{ mm}$  cable travel

Actuation time: 250 ms Mass (without bracket): <2.5 kg

Customer Specified

Working Linear Travel: 43 mm Mounting Features:

Bracket

**Total Linear Travel:** 50 mm **Connector:** Customer Specified

Full Travel Time

300 ms max,
Park to Drive

Envelope: Customer Specified

<u>Durability</u>

**Strokes (Full)** >300,000

### **Environmental**

Vibration:Random - 15 g's, 50 hrs/planeMechanical Shock:30 g's, 10 ms half-sine pulse

Operational Temp. Range: -40°C to 105°C (125°C in development)

**Solvent Resistance:**All normal under hood fluids

Salt Fog: ASTM-B117 840 hrs.



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"Energy into Action"

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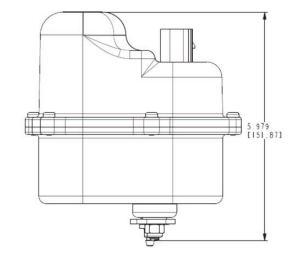
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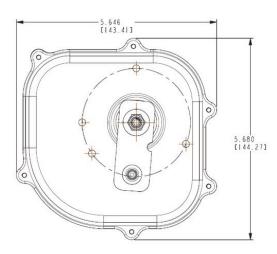
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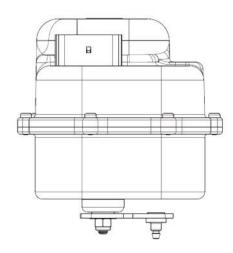
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### Please contact Stoneridge for more details



**Stoneridge** is an independent designer and manufacturer of highly engineered electrical and electronic components, modules and systems principally for the automotive, light/medium/heavy-duty truck, agricultural and off-highway vehicle markets. Our products provide engineered solutions that improve the efficiency and performance of electric and electronic systems.

The **Control Devices Group** focuses on products that sense, switch and control a specific function. Our key technologies include:

- Electromechanical Actuators
- Customer Actuated Switches
- Emissions Sensors
- Solenoid Coil Valves
- Powertrain Switches and Sensors

- Pressure Switches and Sensors
- Speed Sensors
- Temperature Sensors
- Position Sensors
- Torque Sensors

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