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)

Mechanical

Peak Force (12.6VDC, 25°C): 89.0N  Positional Accuracy: ± 0.75 mm cable travel
Actuation time: 250 ms  Mass (without bracket): <2.5 kg
Working Linear Travel: 43 mm  Mounting Features: Customer Specified Bracket
Total Linear Travel: 50 mm  Connector: Customer Specified
Full Travel Time 300 ms max, Park to Drive Envelope: Customer Specified

Durability

Strokes (Full) >300,000

Environmental

Vibration: Random - 15 g’s, 50 hrs/plane
Mechanical 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
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“Energy into Action”

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