

## 10628

### Specifications

Mechanical Specifications :

- Travel Range (°): 53.5
- Holding Force (N [lbf]): 22 [5]
- Mounting: See figure 3 on page 2
- Life (Cycles):  $\geq 100,000$

Electrical Specifications :

- Sensor Types: Resistive, Hall Effect
- Output Types: Dual Analog
- Working Voltage (VDC): 5
- Max Supply Voltage (VDC): 5
- Max Output Current (mA): 10
- Connector: Delphi Metripack 150 Series ref figure 2 on page 2
- Reverse Polarity Protection
- Electrical Output: See figure 1 on page 2

Environmental Specifications :

- Temperature Range (°C [°F]): -40 to 85

[-40 to 185]

- IP Rating: 66

Testing and Validation:

- Thermal Cycling: -40°C to 85°C per SAE J1455.
- Thermal Shock: -40°C to 85°C per SAE J1455.
- Humidity: 120 hours at 95% relative humidity for temperature range of 27°C to 75°C per SAE J1455.
- Mechanical Vibration:
  - a.Swept sine vibration per SAE J1455.
  - b.Random 5-500Hz at 4G per SAE J1455.
- Salt Spray: 96 Hours per ASTM B-117.
- Chemical Exposure: diesel, brake fluid, antifreeze, and plastic protectant.
- Pressure Wash:
  - a.Detergent solution at 250 psig for 40 minutes.
  - b.Water heated to 60°C at 1,000 psig for 40 minutes.

- Mechanical Shock: Drop from 1m to a concrete floor in each of three different orientations that are perpendicular to one another per SAE J1455.
- Sensor Life: 10,000,000 full cycles over temperature range of -40°C to 85°C.
- Sensor Dither Testing: 80,000,000 cycles at 28 Hz.
- Sensor EMC Testing: EMI per SAE J1113 Class C

