

TABLE 1—SENSOR TECHNOLOGIES AND PARAMETERS IN MOTOR VEHICLES

Sensor types	Force	Pressure	Position	Displace- ment	Velocity	Accel- eration	Shock, vibration	Proximity	Temper- ature
Capacitance	x	x	x	x		x	x	x	
Strain gauge	x	x	x	x	x	x	x		
Piezoelectric	x	x		x	x	x	x		
Potentiometer	x	x	x	x					
Differential transformer	x	x	x	x	x	x			
Eddy current			x	x	x				x
Inductive			x	x	x		x		x
Hall effect			x	x					x
Magnetostrictive			x	x					x
Thermocouple									x
Thermistor									x
Semiconductor junction									x

Note: Table does not show volume and mass-flow sensors, nor does it show devices that respond to specific chemical compounds and elements, such as oxygen. MEMS accelerometers are capacitive sensors.