

# DEFENCE GROUND VEHICLES

## Advanced Sensing Technologies

### Operator Controls

- Key switch
- Temperature sensor
- Toggle switch
- Pushbutton switch
- Rotary position

### Doors

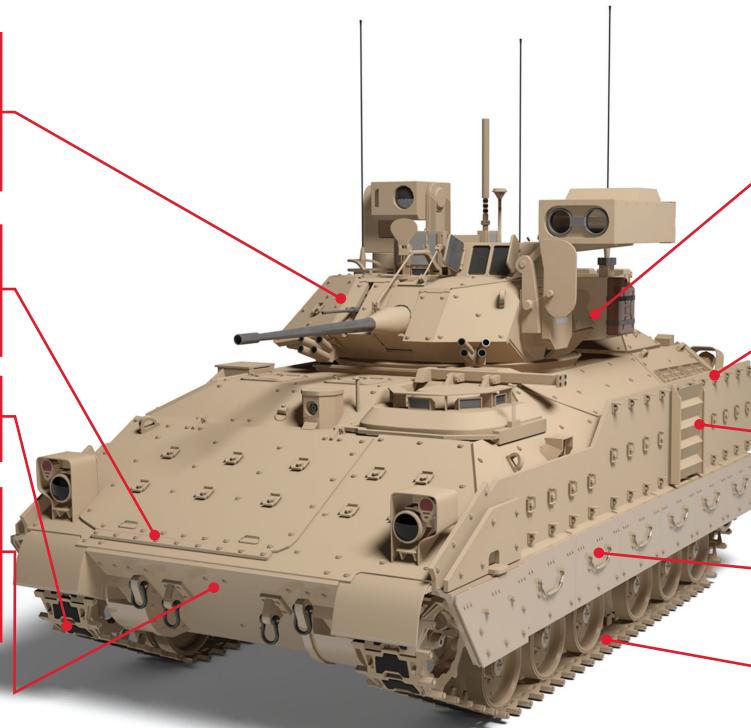
- Limit switch
- Proximity sensor
- Sealed switch
- Toggle switch

### Brake System

- Pressure switch
- Pressure sensor

### Vehicle Position/Tilt

- Hall-effect position sensor
- Inertial measurement unit
- Limit switch



### Weapons Systems

- Limit switch
- Precision thermostat
- Resolver
- Sealed switch
- Proximity sensor

### Engine, Fuel and Transmission

- Precision thermostat
- Pressure sensor
- Pressure switch
- Speed sensor
- Temperature probe

### Cabin

- Basic switch
- Gas sensor (Health)
- Particle sensor (Health)
- Temperature sensor

### Hydraulic Systems





- Pressure switch
- Pressure sensor
- Temperature probe

### Wheels/Tracks and Suspension



- Speed sensor

	Aero sealed switch	Aero prox platform	Aero rotary position	Rotary position	Pressure switches	Toggles & rockers	Speed sensors	Thermal switches	Basic switches	Pressure sensors	Gas sensors	Oxygen sensor	Air quality monitors	Board mount pressure sensors	Board mount force sensors	Motor control (Magnetics)	IMU
Door & hatch locking detection	✓	✓		✓		✓											
Hydraulic brake systems					✓					✓							
Vehicle level																	✓
Steering & controls						✓			✓								
Turret/sighting control systems	✓	✓	✓	✓													
Engine management			✓		✓		✓			✓							
Cabin ventilation systems	✓							✓	✓		✓	✓	✓	✓	✓		
Gearbox engagement & override					✓					✓							
Steering/track drive				✓			✓										
Crew monitoring											✓	✓		✓		✓	

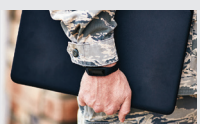
## MACHINE FUNCTION AND PERFORMANCE

Application		Growth Factor	Primary Products	Secondary Products
Wheel tracks and suspension		Design enhancement to improve efficiency of track wear and performance	<ul style="list-style-type: none"> <li>Speed sensors</li> </ul>	<ul style="list-style-type: none"> <li>Transportation position</li> </ul>
Engine management		Implementation of means to monitor and control engine operation and performance	<ul style="list-style-type: none"> <li>Pressure switches</li> <li>Pressure sensors</li> <li>Speed sensors</li> </ul>	<ul style="list-style-type: none"> <li>RVDT/LVDT sensors</li> </ul>
Gear box		Development of improved efficiency of gearbox transmissions	<ul style="list-style-type: none"> <li>Pressure switches</li> <li>Pressure sensors</li> </ul>	<ul style="list-style-type: none"> <li>AMR magnetic IC</li> </ul>
Weapons system		Increasing sophistication of systems to control and monitor multiple input points	<ul style="list-style-type: none"> <li>Aero sealed switches</li> <li>Aero prox platform</li> <li>Transportation position</li> <li>Basic switches</li> </ul>	<ul style="list-style-type: none"> <li>Rotary position</li> </ul>

## GROUND VEHICLES – ACCESS AND SAFETY

Application		Growth Factor	Primary Products	Secondary Products
Doors		Increased focus on hermetically sealed doors for vehicles used in terrains at higher altitudes and risk of external atmospheric conditions	<ul style="list-style-type: none"> <li>Aero sealed switches</li> <li>Aero prox platform</li> <li>Transportation position</li> <li>Basic switches</li> <li>Pressure sensor</li> </ul>	<ul style="list-style-type: none"> <li>Toggle switches</li> </ul>
Cabin		Growth on connected systems for smaller lower cost oxygen concentrators for air management control	<ul style="list-style-type: none"> <li>Board mount pressure sensors</li> <li>Airflow sensors</li> <li>Oxygen sensors</li> <li>Particle sensors</li> </ul>	<ul style="list-style-type: none"> <li>Thermal switches and sensors</li> <li>Aero sealed switches</li> <li>Toggle &amp; rocker switches</li> </ul>

## GROUND VEHICLES – REMOTE HEALTH MONITOR

Application		Growth Factor	Primary Products	Secondary Products
Crew monitoring		Integrated health monitoring by smaller portable or wearable systems that allow crew members to be monitored remotely	<ul style="list-style-type: none"> <li>Board mount pressure sensors</li> </ul>	<ul style="list-style-type: none"> <li>Humidity &amp; temperature sensors</li> <li>Magnetic sensors</li> <li>Particle sensor</li> <li>Barcode scanner</li> </ul>

### WARRANTY/REMEDY

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