

TRAINS & RAIL SYSTEMS

Advanced Sensing Technologies

Engine Management

- Thermal switch
- Pressure sensor
- Pressure switch
- Speed sensor
- Temperature probe

On-board Facilities

- Pressure sensor
- Air quality
- Pushbutton switch

Lift Systems

- Limit switch
- Toggle switch
- Key switch



Doors and Panels

- Limit switch
- Magnetic sensor

Brake systems




- Limit switch
- Pressure sensor
- Pressure switch

Tracks and Points



- Limit switch
- Magnetic sensor

	Non-contact position sensing	Temperature sensing	Pushbutton switches	Rotary position	Pressure switches	Toggles and rockers	Speed sensors	Thermal switches	Basic switches	Pressure sensors	IMU	Limit switches	Air quality monitors	Key switches	Magnetic ICs	Scan Engines
Doors and panels			✓			✓			✓			✓			✓	
Engine management		✓			✓		✓	✓		✓					✓	
Braking systems		✓		✓			✓			✓		✓				
Onboard facilities			✓		✓					✓			✓			
Platform lifts	✓		✓	✓		✓			✓			✓		✓	✓	
Barrier controls									✓			✓				✓
Track switching												✓			✓	
Maintenance vehicles	✓				✓	✓	✓	✓		✓	✓	✓		✓		




TRAIN RELIABILITY AND SAFETY

Application		Growth Factor	Primary Products	Secondary Products
Doors and panels		Increasing use of inter-connected systems to ensure safety and security	<ul style="list-style-type: none"> Limit switches 	<ul style="list-style-type: none"> Magnetic ICs
Engine management		Implementation of means to monitor and control engine operation and performance	<ul style="list-style-type: none"> Pressure sensors Speed sensors 	<ul style="list-style-type: none"> Temperature probes Temperature switches
Braking systems		Preventative maintenance routines to monitor effectiveness to reduce downtime	<ul style="list-style-type: none"> Limit switches Pressure sensors Pressure switches 	<ul style="list-style-type: none"> Thermistor

PASSENGER ASSISTANCE

Application		Growth Factor	Primary Products	Secondary Products
Onboard facilities		Sensing systems to control and regulate enclosed water supply and air quality	<ul style="list-style-type: none"> Pressure sensors 	<ul style="list-style-type: none"> Pressure switches Air quality monitors
Platform lifts		Adjustable platforms and steps for train access and wheelchair lifts	<ul style="list-style-type: none"> Limit switches Basic switches 	<ul style="list-style-type: none"> Magnetic ICs Toggle switches

INFRASTRUCTURE AND EXTENDED ENVIRONMENT

Application		Growth Factor	Primary Products	Secondary Products
Barrier controls		Reliable performance with consistent repeat operation for platform and traffic control	<ul style="list-style-type: none"> Limit switches Enclosed basic switches 	<ul style="list-style-type: none"> Scan engines
Track switching		Low energy, reliable position sensing for exposed environments	<ul style="list-style-type: none"> Limit switches 	<ul style="list-style-type: none"> Magnetic ICs Position sensors
Maintenance vehicles		Specialist vehicles with a range of features and devices to be controlled	<ul style="list-style-type: none"> Toggle switches Limit switches 	<ul style="list-style-type: none"> Speed sensors Key switches

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