

SWITCHES & POSITION SENSORS | MOTION AUTOMATION & CONTROL

Railways DETECTION, SWITCHING & MOTION CONTROL SOLUTIONS

www.crouzet.com

ABOUT CROUZET

Since 1921, Crouzet has been committed to designing, manufacturing and supplying efficient components for automated systems to serve a wide range of applications in the Aerospace & Defense market and in many Industrial equipment markets with a specific focus on applications such as Access control, Railway, Nuclear and Industrial valves markets.

Crouzet's product lines include Automation and Control devices, Motion products, Switches and Position Sensors, Cockpit Controls and Electrical Protection solutions. Crouzet has a heritage of close collaboration with customers in the development of adapted products to fully customized solutions.

Driven by innovation and customer satisfaction our teams are focused on delivering the right products and services for the right application, always meeting, often exceeding customers' expectations.

Crouzet is your trusted partner of choice to face industrial challenges of today and tomorrow.

Crouzet is a brand of InnoVista Sensors™.



InnoVista Sensors[™] is a worldwide industrial specialist of sensors, controllers and actuators for automated systems.

Through it brand, Crouzet, InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defense, Transportation and Industrial markets and segments.

Thanks to the recognized expertise of its teams and a strong innovation policy, InnoVista Sensors™ brings performance enhancing solutions to its customers worldwide.

InnoVista Sensors[™]: your trusted partner of choice to face industrial challenges of today and tomorrow.

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Designs & ManufacturesSensorsImage: ControlsSensorsImage: ControlsControlsActuatorsForImage: ControlsImage: ControlsForImage: ControlsImage: ControlsForImage: ControlsImage: Controls</t

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CROUZET IN THE RAILWAY SECTOR

Actively involved in the railway industry for over 50 years, Crouzet has built up a solid reputation as a reliable manufacturer of safety critical components for various rolling stock segments and some fixed installations.



CUSTOMER BENEFITS

Safety & Security

- Robust products compliant to railway standards & approved to customers' specification
- Harsh environment resistance & long operating life
 Custom adaptation center for tailor-made solutions

Norms



Efficiency & Cost-Effectiveness

- Global solutions of detection, switching, motion & remote control from one supplier
- Reduced maintenance thanks to easy-integration, lownoise & low-vibration motors
- > Worldwide presence with European & Asian production sites

Proven Expertise

- Extensive knowledge of railway applications through partnerships with the key players – Alstom-Siemens, Bombardier, CRRC, Fuji, Hitachi, Kangni, Knorr-Bremse Group, Secheron, Vossloh, Wabtec Group...
- > Best practices shared
- Member of French Railway Industry (FIF) & Railway Supply Institute (RSI)



	Microswitches		
SWITCHES		 > Largest range of the market > Ratings from 1 mA to 16 A / AC or DC > Tag terminals or lead/cable output > IP40 to IP69 protection > Changeover SPDT with separate NO/NC circuit > Positive opening operation of NC contacts > Wide range of actuators and mounting accessories > Long life up to 10 M cycles 	
S	Limit Switches		
		 Robust construction with metal housing Ratings from 1 mA to 10 A / AC or DC Cable output, halogen free on request IP66 to IP69 protection Changeover SPDT with separate NO/NC circuits Positive opening operation of NC contact Wide range of actuating heads Long life up to 10 M cycles 	
	DCmind Brushless Motors		
		 > Large range up to 600 W (nominal power) and 6 Nm (peak torque) > Integrated electronics > User-friendly software: DCmind soft + CANopen with expert & applicative programs > CANopen available, other communication buses on demand > Encoder 4096 position per turn, other encoder option on demand > IP54, up to IP65, IP67 & IP69 (please contact us) 	
MOTORS	DCmind Brush Motors		
		 Exceptionally quiet: 35 dBA Service life up to 24,000 hours at no-load 5000 hours at rated load More than 80 % efficiency Output power up to 104 W IP65, up to IP67 & IP69 (please contact us) 	
	Gearboxes		
		Planetary > Max torque 120 Nm > Ratios 5 to 393 Worm > Max torque 10 Nm > Ratios 5 to 100 Parallel Shaft > Please contact us	
Timers			
CONTROL		 Power supply from 12 to 240 V in one unit 1 or 2 relays outputs 8 A, or high Power 16 A output 17.5 & 22.5 mm DIN rail mount or 35 mm plug-in Recognized quality and reliability ensures the correct operation of equipment 	
_	Logic Controllers		
AUTOMATION		 Resin protected board 12 to 40 I/Os Digital and analog inputs Vibration resistant Extended temperature range (+70°C) Outputs via removable connectors IP50 seal (connectors) DB 9-pin programming port via standard RS 232 cable 	

INNOVATIVE SOLUTIONS FOR INCREASED SAFETY

Technology is an important element in improving rail safety. Our electromechanical solutions are designed by using the latest technology for applications where failure is not an option.

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DETECTION SWITCH -

PBX SWITCH

The PBX is a safety switch which guarantees the forced opening of NC contacts in the event of a short circuit and/or welding due to an overcurrent.



In-line quick-connect terminals



Wires output on Two-pole DPDT bottom assembly with linked





Wires output on left and right

Why choose PBX switch?

- > High reliability
- > Long overtravel for easy installation
- > Numerous combinations possible thanks to large range of variants and accessories
- > Large adaptation capabilities for specific applications (low & high current)
- > Extended mechanical & electrical life

MOTION CONTROL

DCmind BRUSH & BRUSHLESS MOTORS

Crouzet offers a comprehensive range of DC brush or brushless motors and gearbox combinations designed to meet the customer's specific needs, as well as an easyto-use dedicated software for application set-up.



Why choose our DC motors?

- > Complete all-in-one solution (motor + gearbox + electronics)
- > Adjustable closing force
- > Integrated security function to enable passengers to quickly leave the train in emergency case
- > Small size for space-restricted applications
- > Reduced maintenance



GET MORE

GET MORE INFORMATION







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