

# MANUFACTURING THE FUTURE

## *Of Railway Industry*

*With Crouzet components: electromechanical switches, inductive position sensors, force sensors, motors, automation and control, pneumatic systems.*

[WWW.CROUZET.COM](http://WWW.CROUZET.COM)

 **CROUZET**

# ABOUT CROUZET

Crouzet is an independent company **manufacturing mechatronic components for demanding applications in Aerospace & Transportation, Energy, Building and Machinery Industry.**

Crouzet provides **Switches and Sensors, Electromechanical Actuators, Electrical Protection Equipment, Cockpit Controls, Automation Controllers and Relays, and Instrumentation Services.**

Since 1921, Crouzet has a heritage of close collaboration with customers in the development of products, from standard components to fully customized solutions.

Crouzet's customers and partners can rely on our teams worldwide to always meet and often exceed their expectations. Driven by innovation, our experts are focused on designing and delivering the right product for the right application.

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

## WORLDWIDE PRESENCE



📍 HEADQUARTERS

■ SALES OFFICES

# CROUZET In the Railway Industry

## 60+ Years' Experience

As a reliable manufacturer of safety critical components for various Rolling Stock and Infrastructure applications

### COMPLIANT WITH RAILWAY STANDARDS

→ HARSH ENVIRONMENTS RESISTANCE



**FIRE & SMOKE**  
EN 45545



**SHOCKS & VIBRATION**  
IEC 61373



**INSULATION COORDINATION**  
EN 50124-1

### LONG-TERM RELATIONSHIPS

→ WITH RENEWED INDUSTRY PLAYERS

#### SUB-TIER MANUFACTURERS



#### TRAIN MANUFACTURERS



#### RAIL OPERATORS



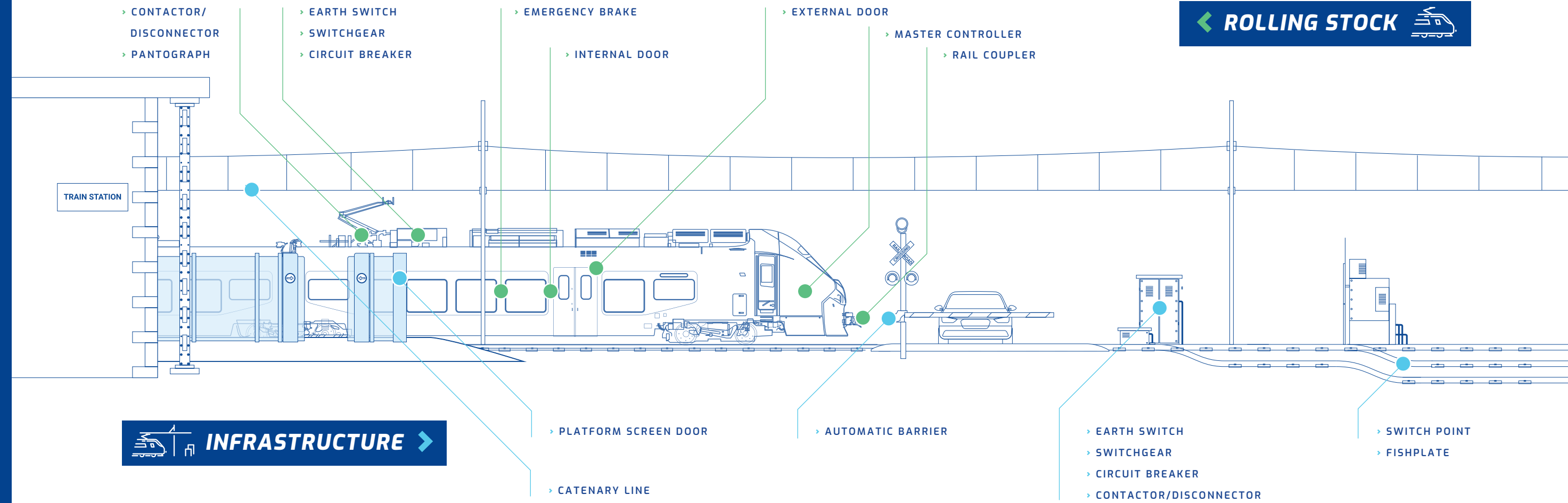
### PROUD MEMBERS OF

→ RAILWAY ASSOCIATIONS

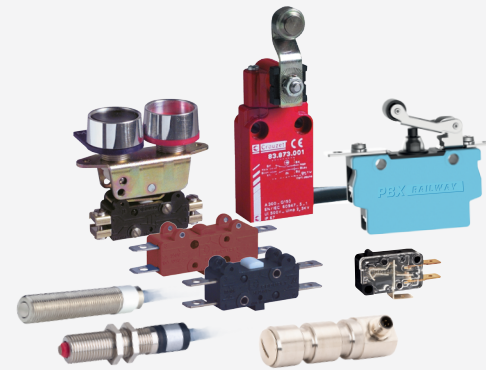


French Railway Industry

## APPLICATIONS

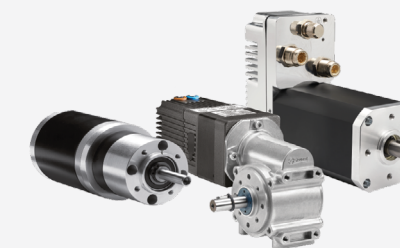


## DEDICATED PRODUCTS



### SENSORS

- › Microswitches
- › Force Sensors
- › Limit Switches
- › Pneumatic Sensors
- › Inductive Sensors



### MOTORS

- › DC Mind Brush and Brushless motors



### AUTOMATION

- › Controllers
- › Timers
- › Counters
- › Solid State Relays

## CUSTOMIZATION & ADAPTATION

### Design, engineering and production experts at your service

Our DesignLAB team provides innovative customization solutions for your most specific applications. Specialized on high volume production, long-term partnerships and railway-ready qualifications.

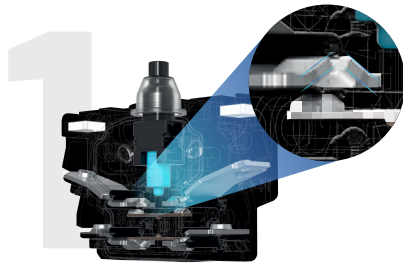
### Get in touch with our

**DESIGN LAB**

at [www.crouzet.com/contact-us/](http://www.crouzet.com/contact-us/)

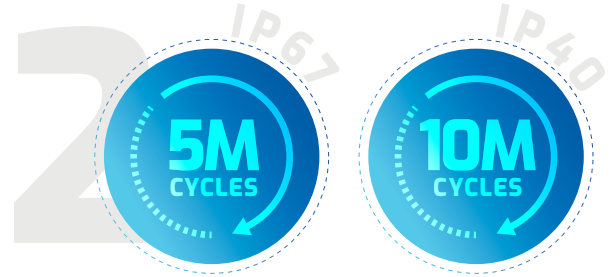
# FEATURED PRODUCT: PBX RAILWAY

## RELIABILITY



### Self-cleaning contacts

It's new double «V-shaped» contacts, wipe themselves to eliminate any pollution.



### Long-lasting durability

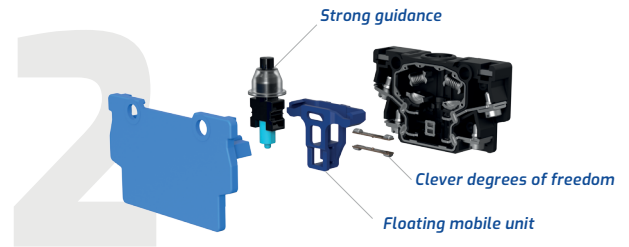
The sealed IP67 version is qualified to last at least 5 million cycles, while the IP40 version, up to 10 million.

## ROBUSTNESS



### Strong, durable housing

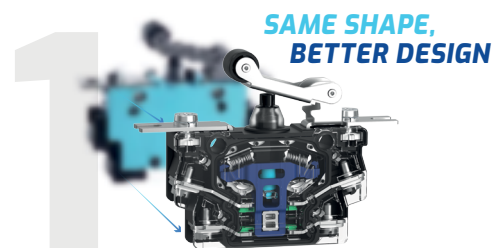
Made of polycarbonate glass fiber reinforced, it has the strongest and most durable housing available on the market today.



### Better insulation + Shock & vibration resistance

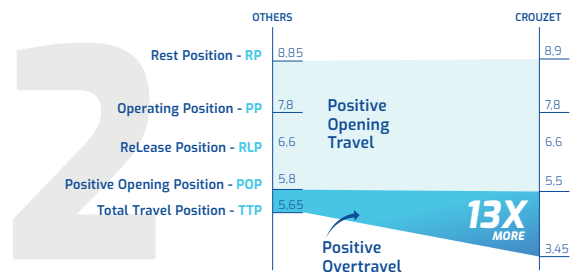
The PBX Railway is designed to insulate the electrical contact from the external troubles (shocks & vibrations).

## SMART USE



### Completely interchangeable

Easily switch from the existing PBX version or from a competitor's similar product to this new PBX Railway.



### Easier integration

Thanks to the highest positive overtravel on the market (2,05 mm vs 0.15 mm with competitors), the PBX Railway eases its integration on our customer's designs and applications by reducing the adjustment process.