

ABOUT CROUZET SWITCHES

With over 60 years involvement in highly demanding markets where security and reliability are requested, Crouzet Switches, specialist in snap-action electrical switching brings peace of mind to design engineers through expert product support, in-depth knowledge of application design constraints and related standards and approvals issues.

Crouzet Switches is a brand of InnoVista Sensors™.

MARKETS

Crouzet Switches has worked for decades with customers who design products for highly technical applications that demand superior quality, reliability and meet national and international regulatory standards. Crouzet's switches and sensors are utilized in a wide spectrum of applications in the following markets:

- › Industrial Valve & Pumps
- › Nuclear Industry
- › Energy Distribution
- › Trains
- › Specialty vehicles

INNOVISTA SENSORS

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

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

Through its brands, Crouzet Aerospace, Crouzet Automation, Crouzet Control, Crouzet Motors, Crouzet Switches and Systron Donner Inertial, InnoVista Sensors™ offers a wide range of reliable, efficient and customizable components dedicated to the Aerospace & Defence, Transportation and Industrial market 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.

www.innovistasensors.com

Designs & Manufactures



Sensors



Controls



Actuators

For



Aerospace & Defense



Transportation



Industry

With commercial brands



CROUZET
AEROSPACE



CROUZET
AUTOMATION



CROUZET
CONTROL



CROUZET
MOTORS



CROUZET
SWITCHES



SYSTRON DONNER
INERTIAL

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RAILWAY APPLICATIONS DETECTION / SWITCHING



› Microswitches

› Limit Switches

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Warning:

The product information contained in this catalogue is given purely as information and does not constitute a representation, warranty or any form of contractual commitment. Crouzet Automatismes SAS and its subsidiaries reserve the right to modify their products without notice. It is imperative that we should be consulted over any particular use or application of our products and it is the responsibility of the buyer to establish, particularly through all the appropriate tests, that the product is suitable for the use or application. Under no circumstances will our warranty apply, nor shall we be held responsible for any application (such as any modification, addition, deletion, use in conjunction with other electrical or electronic components, circuits or assemblies, or any other unsuitable material or substance) which has not been expressly agreed by us prior to the sale of our products.



Ref.: 672317A/EN | 05/2016 - Photos: Griko, Daniel Lattard, Schneider Electric, SNCF

WHO ARE WE?

Crouzet Switches is a specialist in snap-action technology with its switching and detection solutions, and offers ranges of microswitches, limit switches, manually controlled switches and sensors.

As a supplier of original equipment to the leading manufacturers, parts manufacturers and the major national operators for maintenance operations, Crouzet Switches guarantees the supply of components throughout the service life of equipment items.

Crouzet Switches microswitches and limit switches are used in a wide range of on-board applications in rolling stock, as well as for certain fixed installations. These safety critical components detect positions and switch currents (high or low) within applications.

Designed for the most severe environments, they comply with railway standards such as those concerning fire/smoke, shock and vibration resistance, and electrical endurance.

With a worldwide presence in the railway industry, Crouzet Switches works closely with its customers to adapt its products to meet the particular requirements of their specifications, while complying with the most rigorous quality requirements and changes in standards.

CROUZET SWITCHES IS A MEMBER OF THE FRENCH RAILWAY INDUSTRY (FIF) AND THE RAILWAY SUPPLY INSTITUTE (RSI).



Positive opening switch

Designed to meet the requirements of the industrial and railway markets, PBX Secure positive opening switches resist severe environments over long periods.

A RELIABLE MECHANISM

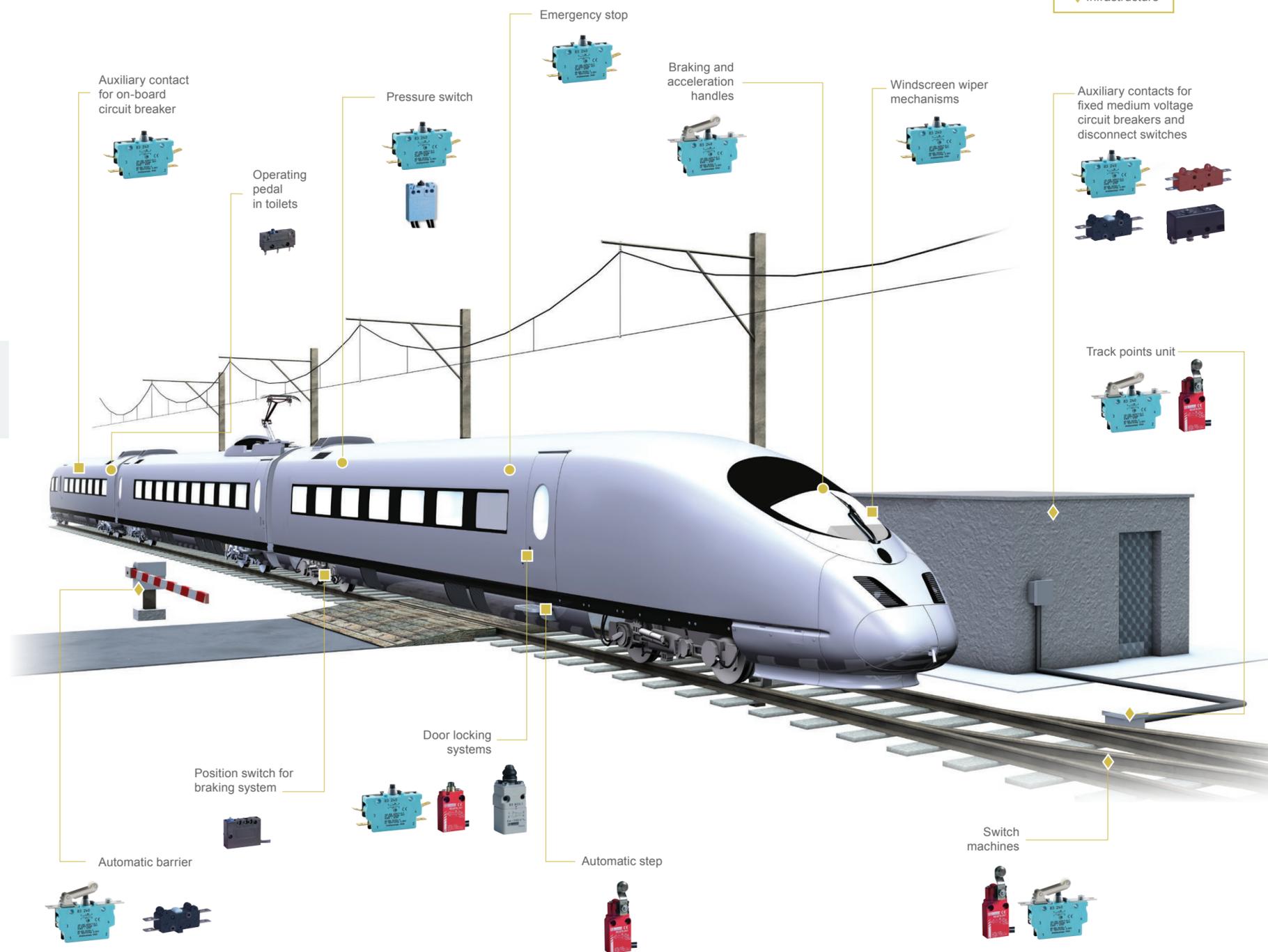
The PBX positive opening mechanism, which has been patented and tested (EP 11227362), conforms to standard IEC 60947-5-1 appendix K.

PBX Secure switches have been approved by the SNCF for railway use. (document reference: 10-5312 235)

CHARACTERISTICS

- › Positive opening changeover contacts NO/NC, electrically isolated (SPDT-form Zb)
- › Fire/smoke resistant EN 45545
- › IP40 or IP67 / IP65 versions
- › Operating temperature -50 °C to +85 °C
- › Long overtravel beyond positive opening position
- › Standard versions or Dual-current (gold plated contacts)

THE CROUZET SWITCHES OFFER FOR RAILWAY APPLICATIONS



- Bodywork
- Passenger compartment
- ◆ Infrastructure

SELECTION OF SNAP-ACTION SWITCHES

| MICROSWITCHES | |
|---|---|
| <ul style="list-style-type: none"> ◆ PBX Secure 8324x - Double break, Positive opening | <ul style="list-style-type: none"> › Max. rating 10 A 250 VAC › Double break changeover (SPDT-form Zb) with positive break operation › Separate NO/NC circuits › IP67/IP65 sealed version. Low level version › Tag terminals (Lead output EN 50306: consult us). Levers. Mounting plates |
| <ul style="list-style-type: none"> ◆ 83106 - Double break, Momentary or Maintained function | <ul style="list-style-type: none"> › Max. rating 10 A 250 VAC › Double break changeover (SPDT-form Za) › Multipole versions on metal plates › Wide choice of actuators for symmetrical mounting |
| <ul style="list-style-type: none"> ● 83139 - Double break, IP67 Protection, Wire/Cable output | <ul style="list-style-type: none"> › Max. rating 6 A 250 VAC › Double break changeover (SPDT-form Za) › Double pole version (DPDT-form Za) › On request: Halogen-free wires or cable EN 50306 |
| <ul style="list-style-type: none"> ◆ 83118 - High sensitivity | <ul style="list-style-type: none"> › Max. rating 10 A 250 VAC › Low differential travel: max 0.09 mm › Low operating force: max 1.5 N › Wide choice of actuators |
| <ul style="list-style-type: none"> ■ V3S 83169 - Miniature, IP67 Protection, Wire/Cable output | <ul style="list-style-type: none"> › Max. rating 8 A 250 VAC › Dual-current version 1mA 4 VDC to 5A 250 VAC › Low differential travel version, telescopic plunger, levers, ... › On request: halogen-free wires or cable |
| <ul style="list-style-type: none"> ◆ 83154 - Double break, High DC rating | <ul style="list-style-type: none"> › Max. rating 5 A 250 VDC › Double break changeover (SPDT-form Za) with magnetic blow-out › Multipole versions on metal plates › Wide choice of actuators |
| <ul style="list-style-type: none"> ● V4S 8318x - Subminiature, IP67 Protection | <ul style="list-style-type: none"> › Max. rating 10 A 250 VAC › Dual-current version 1 mA 4 VDC to 5 A 250 VAC › Special versions: easy installation, flexible levers, ... › Tag terminals or lead/cable output (halogen-free on request) › Extensive choice of actuators, 2 fitting positions |
| <ul style="list-style-type: none"> ◆ 8387x and 8388x - Cable output, Positive opening | <ul style="list-style-type: none"> › Max. rating 10 A 250 VAC. Low level version › Double break changeover (SPDT-form Zb) with positive break operation. Separate NO/NC circuits › IP66/67 metal housing › Wide choice of actuators › On request: halogen-free cable EN 50306 |
| <ul style="list-style-type: none"> ■ 8380x - Plug-in body | <ul style="list-style-type: none"> › Max. rating 5 A 250 VAC › Double break changeover (SPDT-form Za) › IP65 plastic housing › Wide choice of actuators › Adaptation: halogen-free cable output |

* Approval pending

