

# Access Control

## MOTION CONTROL & AUTOMATION SOLUTIONS

# 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 its 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.

[www.innovistasensors.com](http://www.innovistasensors.com)

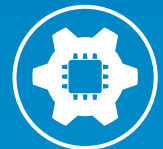
## Designs & Manufactures



Sensors



Controls



Actuators

## For



Aerospace & Defense



Transportation



Industry

# INTELLIGENT GATES & DOORS

Reliability, safety, fluid movement, maintenance & comfort are critical in access control systems.

We are constantly recognizing these needs and converting them into new product innovations to be used in many applications.

## ▶ PEDESTRIAN ACCESS



Subway, railway & airport swing gates, turnstiles

## ▶ CITY ACCESS



Bollard, perimeter access, traffic management

## ▶ BUILDING ACCESS



Cleanroom doors, sliding doors, rapid doors, revolving doors, lifts

## ▶ VEHICLE ACCESS



Parking and highway barriers, automated fences

## CUSTOMER BENEFITS

### Safety & Security

- › Extreme precision needs
- › Decrease human accidents due to access control systems' malfunctions

### Predictive Maintenance

- › Prevent security incidents & anticipate unplanned maintenance
- › Improve operational efficiency and reliability

### Traffic Fluid Dynamics

- › Avoid highway clogged toll booth barriers
- › Decrease long wait time in queue lines at automatic passenger gates

# SMART SOLUTIONS FOR YOUR ACCESS CONTROL APPLICATIONS

## □ MOTION CONTROL

To overcome the challenges common to opening and closing an automatic door/gate/barrier, refer to our broad portfolio of DC motors: from brush to intelligent brushless motors, matching gearboxes & software dedicated to access control management.

### ▶ SMART MOTORS WITH INTEGRATED ELECTRONICS

- › High level of accuracy
- › Large nominal power range, from 40 → 600 W
- › Large range of geared motor combinations
- › Brakes from 0.25 Nm → 4.5 Nm
- › Safe Torque Off (STO) inputs included
- › IP54, up to IP65, IP67 & IP69 (please contact us)
- › **CANopen** available



### Access Control Programs pre-loaded on the motor



- › Easy programming of speed, torque and position control
- › Automatic Homing
- › HMI development on demand

### ▶ HIGH-PERFORMANCE DIRECT CURRENT BRUSH MOTORS

- › Exceptionally quiet: ≤ 35dBA
- › 80 % + efficiency
- › 5000 → 24,000 hour service life
- › UL 1004 / CE / RoHS



## □ REMOTE MANAGEMENT

The em4 nano-PLC are the easiest to use programmable modules for various applications. With simple and intuitive software, controlling and monitoring of access control installations is incredibly simple.

### ▶ AUTOMATION & CONTROL

- em4 alert
  - › Control and alert functions with mobile phones
  - › Alert and logs functions directly managed as simple function blocks
  - › Send data report via SMS and datalogs via email or FTP
  - › Exchange data between several em4 alert
  - › Use your own SIM card supplied by any GSM network operator



### em4 Ethernet

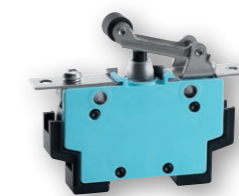
- › Event management and alerts by email
- › Ethernet Modbus TCP/IP standard protocol Client and Server
- › Connect the touch panel directly to your em4 Ethernet
- › Program and debug your em4 Ethernet from anywhere on the Ethernet local network
- › Receive scheduled simple datalogs via email or FTP
- › Send email alerts fully controlled by the application program



## □ POSITION MONITORING

Security does not exist without reliability. Our positive opening action switches guarantee the forced opening of the contacts in the event of welding due to short circuit or overload.

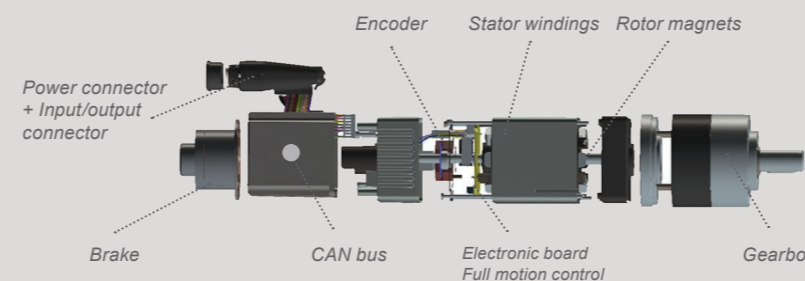
### ▶ SWITCHES & POSITION SENSORS



- › Snap-action mechanism with positive break
- › Electrically separated NC/NO circuits
- › IP66/IP67/IP69 protection degree
- › Up to 10 million cycles
- › Min 1 mA → max 10 A loads
- › Terminal or prewired outputs

## SPECIFIC DEVELOPMENTS FOR SPECIAL PROJECTS

Whatever the complexity of the customer's technical requirements, our dedicated engineering team, backed up by decades of expertise in design of access control solutions, is able to provide the right product within the shortest time frames.



**AMERICAS**
**CANADA**

Tel.: +1 (855) 929-5465  
americas.custserv@crouzet.com

**MEXICO**

Tel.: +1 (855) 929-5465  
americas.custserv@crouzet.com

**USA**

+1 (855) 929-5465  
americas.custserv@crouzet.com

**COUNTRIES NOT LISTED**

+1 (855) 929-5465  
americas.custserv@crouzet.com

**EUROPE / MIDDLE EAST / AFRICA**
**BELGIUM**

Tel.: +32 (0) 2 620 06 05  
Fax: +32 (0) 2 461 00 23  
klantenservice@crouzet.com

**FRANCE**

Tel.: +33 (0) 475 802 101  
Fax: +33 (0) 475 828 900  
relationclient@crouzet.com

**GERMANY / AUSTRIA**

Tel.: +49 (0) 2103/9385930  
Fax: +49 (0) 2103/980-222  
kundenservice@crouzet.com

**ITALY**

Tel.: +39 (02) 38 594 099  
Fax: +39 (02) 82 952 104  
assistenzaclienti@crouzet.com

**SPAIN / PORTUGAL**

Tel.: +34 (91) 215 80 95  
Fax: +34 (93) 2 20 02 05  
atencionalcliente@crouzet.com

**SWITZERLAND**

Tel.: +41 (0) 225 67 57 90  
Fax: +41 (0) 565 88 02 75  
kundenservice@crouzet.com

**THE NETHERLANDS**

Tel.: +31 (0) 20-654 52 20  
klantenservice@crouzet.com

**UNITED KINGDOM**

Tel.: +44 (0) 2076 600 025  
customer.relation@crouzet.com

**COUNTRIES NOT LISTED**

Tel.: +33 (0) 475 802 102  
Fax: +33 (0) 475 828 900  
customer.relation@crouzet.com

**ASIA / PACIFIC**
**CHINA**

Tel.: +86 (21) 8025 7166  
Fax: +86 (21) 6107 1771  
china@crouzet.com

**INDIA**

Tel.: +91 (80) 6762 4501/500  
india@crouzet.com

**SOUTH KOREA**

Tel.: +82 (2) 2679 8312  
Fax: +82 (2) 2679 9888  
korea@crouzet.com

**EAST ASIA PACIFIC**

Tel.: +86 (21) 8025 7177  
Fax: +86 (21) 6107 1771  
eap@crouzet.com

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