

# Access Control

## MOTION CONTROL & AUTOMATION SOLUTIONS

# 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



# 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.

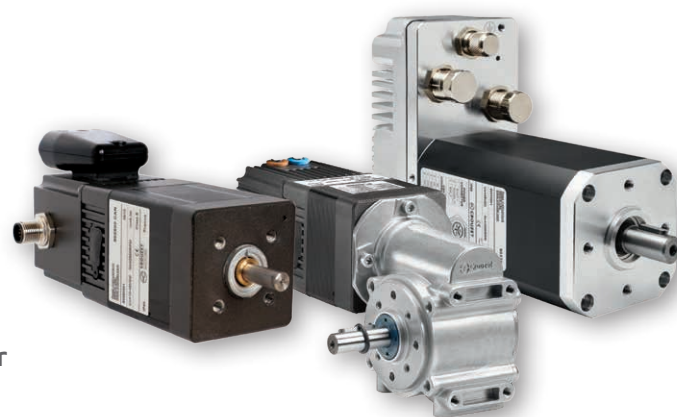
### SMART MOTORS WITH INTEGRATED ELECTRONICS

- › 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



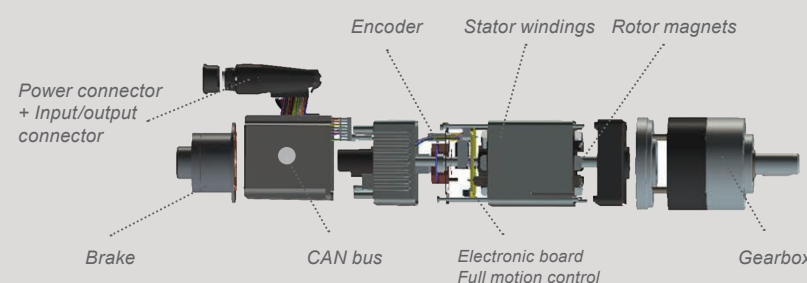
### HIGH-PERFORMANCE DIRECT CURRENT BRUSH MOTORS

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



## 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.



## 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

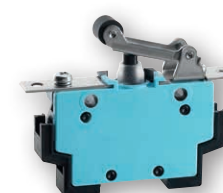
- › Event management and alerts by email
- › Ethernet Modbus TCP/IP standard protocol Client and Server
- › Connect the touch panel directly to your em4 Ethernet
- › Program and debug your em4 Ethernet from anywhere on the Ethernet local network
- › Receive scheduled simple datalogs via email or FTP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

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