

PRODUCT LINES

Overview



ABOUT CROUZET

100 YEARS MANUFACTURING THE FUTURE Together

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

Crouzet provides Switches & Sensors, Electromechanical Actuators, Electrical Control & Protection Equipment, Flight Control Equipment, Automation Controllers & 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 the industrial challenges of today and tomorrow.

WORLDWIDE PRESENCE

10 Manufacturing Plants & 6 R&D Labs





PARIS. FRANCE

















CROUZET.COM

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100 YEARS DESIGNING & MANUFACTURING MECHATRONIC COMPONENTS

For demanding applications



Aerospace & Defense

- > Aircraft
- > Helicopter
- > Defense
- >Urban Air Mobility



Transportation

- > Railway
- > Automotive
- > Specialty **Vehicles**



Energy

- > Nuclear
- > Distribution > Renewable



Building

- > Gates & Doors
- > Building





Machinery

- > Industrial
- > Automation
- > Food & Beverage

WORLD CLASS

DISTRIBUTION NETWORK

We work with the global leaders of our markets













ALSTOM

SIEMENS





Schneider

ABB



THALES

somfy.

ASSA ABLOY

When combining our long-standing expertise on mechanical, electronics and software engineering, we are able to design and manufacture top-notch mechatronic components for your most demanding

applications.

Electro-Electronics mechanics MECHA-**TRONICS Software**

Get to know our product lines







Cockpit Controls



OUR OFFER: MECHATRONIC COMPONENTS

Electrical Protection



Motion Control



Automation Human Machine Interface **ACTUATORS SENSORS** CONTROL **▶** OUTPUTS **INPUTS** Process inputs & instruct systems Convert energy of any type into Motion variable into an electronic signal COMMUNICATION Synergy

Other comm. interfaces

In compliance with highest standards

























Customization, adaptation & co-design expertise at your service

When your innovation process needs more than high-quality standard products, we will answer your specific needs by offering you the best customized solution, a long-term partnership commitment and a multidisciplinary team dedicated to your project.

























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SWITCHES & POSITION SENSORS

MICROSWITCHES

		SUB	-SUBMINIAT	TURE	SUBMINIATURE		RE	MINIA	ATURE & SPI	ECIAL
									, 3333	
SERI	ES	V5S 8320	83228 83229	V5D 83194 83141	V4/V4D 83170 8327	V4S 8318	83132 83133 83134	V3/V3D 83161/160 8326	V3S/V3DS 83169 8329	PBX 8324
	Rating 50 V~	4 A	5 A	5 A	12 A	10 A	6 A	25 A	10 A	10 A
Low	level version	I (mA)	I (mA)	I (mA)	I (mA)	I (mA)	I (mA)	I (mA)	I (mA)	I (mA)
Seal		IP67 IP69				IP67 IP69			IP67 IP69	IP65 IP67
Dou brea	:						₽ Za*			₽ Zb*
Max tem ture	pera-	+90	+140	+150	+150	+125	+150	+200	+105	+85
Min. tem ture	pera-	-40	-55	-55	-40	-40	-40	-60	-40	-50
Spec	cific ronment			**			**	*		
10	NF/ENEC/CE	C€	C€	C€	₩ (€	N F(€	C€	₩ (€	C€	C€
Approvals	UL	c 91 1 us	c 91 2 us	c 91 1/us	c 91 1us	c 91 1/us	c 91 2 us	c 91 0s	c 911 us	c 91 2 us
Appr	CCC	(III)	☆☆	®	(III)	(11)	®	(III)	(III)	®
	EAC	ERC	EAC	EAC	ERC	ERC	EAC	ERC	ERC	EAC

^{*} Za: NO and NC circuits must be used at same polarity. Zb: NO and NC circuits are electrically separated, and can be used at opposite polarities. ** Consult us

LIMIT SWITCHES

STANDARD

HARSH ENVIRONMENT

	,		18 45		(Simma)	
SEF	RIES	8387 8388	83589	83777 83778	8399Nuc	8399Ex
	nx Rating 250 V~	10 A	8 A	4A	1 A	1 A
Sei	aling level	IP66 IP67 IP69	IP66 IP67 IP69	IP66 IP68(4m) IP69	IP66 IP68(18m) IP69	IP66 IP67 IP69
Ma	ax. tempe- ture (°C)	+70	+85	+125	+200	+200
Mirat	n. tempe- ture (°C)	-40	-40	-55	-55	-40
Sp	ecific vironment			**	X .	Ø
S	CE	C€	C€	C€	C€	C€
Approvals	UL	C UL US				
Арр	CCC	(10)	(II)	**	(11)	(1)
	EAC	EAC	EAC	EAC		

SENSORS AEROSPACE

PROXIMITY PROXIMITY

	SWITCH	SWITCH	SENSOR		
Key features	> Hermetically sealed> Customizable> Multi-pole functions	> Contactless detection with integrated electronics > Customizable	with external electronics		
Operating force (N)	2.5 → 50	NA	NA		
Mechanical life (cycles)	100 000	NA	NA		
Water proofness	Watertight or h	ermetic version	- DO 160 sect10		
Weight (g)	15 → 300	< 60	< 50		
Operating temperature (°C)	-55 → +250	-55 → + 125	-55 → + 125		





CUSTOMIZED SOLUTIONS



> Dedicated application

- Customer specific product
- Innovation & industrialization

MANUALLY OPERATED SWITCHES

- > Pushbuttons, Momentary and/or Maintained, up to 4 poles
- > Toggles, Maintained and/or Momentary, up to 4 poles
- > Multiway, Momentary
- > Rockers, Momentary and Maintained
- > Triggers, Momentary











NUCLEAR











TRANSPORTATION



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SYNCHRONOUS

STEPPER

DCmind BRUSHLESS

MOTION

MOTORS

INDUSTRIAL BRUSH

				1×	1×	Annual Co	Pratte	6		· · · · · · · · · · · · · · · · · · ·
CHARACTERISTICS	82840 82860	82800 10 50	82830 82890	89800 10 50	89830 89890	80140 180 280	80350 60 70	82510 20 30 40	82330 82340	82910 20 30 40
Nominal power (W)	0.9 / 3	9 → 33	27 → 95	15 → 35	54 → 104	66 → 150	310 → 600	0.3 → 3	0.2 / 0.4	0.5 → 5
Voltage	12 → 24 V	12 → 48 V	12 → 48 V	12 → 48 V	12 → 120 V	9 → 75 V	9 → 75 V	24 → 240 V 50 → 60 Hz	24 → 240 V 50 → 60 Hz	3 → 64 V
Front side (mm)	Ø 32	Ø 42	Ø 63	Ø 42	Ø 63	SQ57	SQ75	Ø 35 / 51 Ø 57 / 65	Ø 47	Ø 35 / 51 Ø 57 / 65
Nominal speed (rpm)	3700	3000	3000	3000	3000	3000	3000	250 → 600	600 → 720	0 → 1500
Nominal torque (mN.m)	2.2 / 7.7	41 → 100	170 / 270	50 → 110	180 / 290	125 → 550	830 → 1900	10 → 110	2.5 → 8	15 → 300
Noise level (dBA)	55	55	55	35	35	45	50	30	45	35
Service life (hrs)	2000	3000	5000	4000	5000	20000	20000	20000	10 M on / off	20000
Certification	C E MROHS	c 91 0 us (€ F RoHS	c 91 2°us (C E MROHS	C€	RoHS	c 711 ° us (C E MROHS	C € VROHS
Gearboxes	#	000	operator.	CAN SERVICE SE	000	Q Q Q	O _O O	•	Ð	4
Connection										
Standard				((p))		((p))				
Options		(P) (*)								
IP		IP20		IP(55*	IP54	IP65*, IP67* IP69*	IP40	IP30	IP40

DCmind BRUSH

* Except front face & shaft















EQUIPMENT











CONTROL ELECTRONICS INTEGRATED

			William Control of the Control of th		
CHARACTERISTICS	TNi21	SMi21	SMi22	BDE 30	BDE 40
Compatible models	SQ	57	5Q75	SQ	57
Speed-torque	•	•	•	•	•
Position (P/R)		4096	4096		
Programming		DCmind Soft & DCmind Soft + CANopen	DCmind Soft + CANopen	PWM or 0) → 10 V
Communication bus		Optional	Standard		
Communication bus		CANOPER	CANopea		
Voltage	10 → 36 V===	9 → 75 V===	9 → 75 V===	18 → 36 V===	10 → 36 V
Maximum current (A)	17	17	75	10	14
Adaptations	Programs: Custom firmware as per customer specifications				ations

GEARBOXES

	PARALLEL SHAFTS	PLANETARY	WORM
		T×	
CHARACTERISTICS	11 models	7 models	2 models
Torque (N.m)	0.5 → 6	0.8 → 120	10 → 20
Power (W)	0.2 → 50	8 → 600	25 → 600
Service life (Mr*)	1 → 10	50	50
Ratios	4 → 1036800	4 → 308	5 → 100
Options	Stainless stell sh	afts, pulleys, pinions, spec	ial bearings, etc

^{*} Million revolutions

SIMPLIFIED PROGRAMMING*

DCmind Soft (SMi21) & DCmind Soft+CANopen (SMi21 CANopen & SMi22) for DCmind BRUSHLESS

- > Precise configuration of the position, speed and torque
- >The most user-friendly software on the market
- >Two programming modes: application & expert
- > Application programs: dosing, valves, machinery, conveyor belt, access control

EXTERNAL



RAILWAYS



ACCES CONTROL





* Free software on our website (www.crouzet.com) or can be supplied on a USB stick in the «starter kit».

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ELECTRICAL PROTECTION

ELECTROMECHANICAL CIRCUIT BREAKERS

Thousands of Configurations Available

		REGULAR				HIGH-POWER				
		SINGLE POLE			THREE	POLE	SINGL	E POLE	THRE	E POLE
			BARTON DA				William !	9	Mills to	الله الله
	MIL SPEC	MS3320 (AS33201)	MS5692 (AS5692)	MS26574 (AS26574)	MS5692 (AS5692)	MS14154 (AS141544)				
DAR	ASD-STAN	EN2495	EN2995	EN3773	EN2592 EN2	2996 EN3774	EN2794	EN3661	EN2665	EN3662
STANDARD	DIN-Bundeswehr	VG95345-TEIL6 VG95345-TEIL11								
	BACC Alternate		BACC18AD		BACC	C18AC	BACC18X	BACC18R	BACC18AE	10-60806-10
	Rating	c).5 A - 30 <i>i</i>	A	0.5 A	- 30 A	15 A -	- 60 A	15 A	- 60 A
	Auxiliary Contact	With p	oolarized AC	With	non polarized	I AC	Without AC			
SNO	Power Terminal	Standa	ard	✓ 45°	or 60° Bus bar	application 🗸	Push-Fit (0.2	5inch TAB)	Flying leads	
RATIC	Button Lenght	Norma	al Lenght	✓ Extr	a Lenght					
CONFIGURATIONS	Actuation Type	Push F	Pull	✓ Push	sh Push					
O N	Threaded Barrel	✓ M12 - 0	0.75	✓ M12	- 100	•	7/16	•	Cononical Ba	arrel
	Terminal Screw	⊘ 8 - 32	UNC	√ 6-3	2 UNC	•	M4	•	No Terminal	Screws
	Vibration Level	Comm	nercial Aircra	ft 🗸 Figh	ter - Artillery (Gun				

COMPLEMENTARY OFFER

60+ years of aerospace qualification expertise

SMART	REMOTE CONTROL	POWER DISTRIBUTION			
CIRCUIT BREAKERS	CIRCUIT BREAKERS	BOXES			
	777				
Arc Fault & Ground Fault Protection	A circuit breaker and a contactor in one single case	Standard Pre-qualified Equipement + Customized Versions as:			
Avoid drilling into the fuel tank by drastically reducing the amount of energy released by a fault as requested by AC25981	Allowing you to open and close the contactor at a distance just by applying a 28 V command input.	Illuminated & Push/Pull & Wired & PCB- & non-illumi- nated Boxes			

COCKPIT CONTROLS

	FLIGHT CONTROLS						
Pushbuttons	Multiway	Pilot Grips	Control Wheels				
School Back Control of the Control o	Mose up						
>1, 2, 3, 4 pole > Sealed versions	Tactile effectSilver & gold terminals	Ergonomy and functions accessAluminium castings or	Comfort and aestheticsBest in class quality				

Key features	1, 2, 3, 4 poleSealed versionsMore than200 electricalcombinations	 Tactile effect Silver & gold terminals Different hat shape and color 	> Ergonomy and functions access > Aluminium castings or injected in advanced plastic composite > Highest level of finishing	 Comfort and aesthetics Best in class quality Aluminium castings or injected in advanced plastic composite
Operating force	8 N → 16 N	3 N → 6 N	90 daN	150 daN
Mechanical life	300 000 cycles	500 000 cycles	35 000 FH	35 000 FH
Water proofness	D0 260 cat W	DO 260 cat W	DO 260 cat W	DO 260 cat W
Weight (g)	3.6 → 7.7	7.3 → 15.7	420 → 780	960 →1250
Operating temperature (°C)	-55 → +85	-55 → +85	-55 → +85	-55 → +85



DEFENSE





AUTOMATION & CONTROL

AUTOMATION CONTROLLERS



THE SMALLEST LOGIC CONTROLLER EVER!

Millenium Slim



Perfect for small-scale applications:

- > The only highly configurable and multipurpose industrial logic controller with a 17.5 mm (0.69") body
- > Fits in any control panel or machine and supports DIN rail and panel mounting
- > 8 highly configurable I/Os (analog, digital, high-speed, PWM). It can replace dozens of control panel products
- > Built-in Bluetooth communication to give wireless capabilities to your applications.
- > Easy program transfer at a distance



THE MILLENIUM LOGIC CONTROLLERS

THE CLASSIC LOGIC CONTROLLER

Millenium -



For everyone and for any simple application:

- > Many functions in a single product
- > Smart Design: Adapted for modular panels, can be DIN-rail mount or panel mount
- > Different input power versions (available)
- > Easy to use & free software
- > Expand up to 50 I/Os



THE COMMUNICATING LOGIC CONTROLLER

Millenium 5/0







- > Control at a distance: Access to the front face from your PC, laptop, or mobile devices
- > Monitor your applications (Datalog, Events and FTP server connection)
- > Interact with other devices and program anywhere on your local network (via Ethernet or Modbus RTU)



THE PLC MADE SIMPLE

em4NANOPLC



PLC performance with logic controller simplicity, for your high-end applications:

- > 26 I/Os: Configurable inputs to digital, analog & high-speed. Relay,
- static and PWM outputs available > Network communication: Ethernet (Modbus TCP/IP), Modbus RTU and Bluetooth
- > The ease of use of a simple logic controller



THE 5-IN-1 TELECONTROLLER

em4_{ALERT}



Control and monitor any application remotely with a cellular network:

- > Cellular Modem: Give cellular capabilities to your application
- > Alert system: Event alerts, status feedback and alarms wherever you are
- > Data logger: Measure and record key parameters

Crouzet Soft

- Nano-PLC: A PLC in a logic controller body
- > Display: Visualize and change parameters

AUTOMATION CONTROLLERS SOFTWARE



CROUZET SOFT

Millenium3 Soft

- Easiest and most intuitive visual programming software
- > Pre-programmed application blocks like pump management, flow control, liquid level and many more



VIRTUAL DISPLAY

Visualize and manage your controller at a distance:

- > View and change parameters
- > Read & write programs
- > Download Datalog
- > Firmware update



Virtual Display

HMIS



HMIs

- > 4.3", 7" and 10" sizes available
- > Several ways of communication: Ethernet, Modbus RTU, SLin/SLout
- > 2 versions available: High-Performance & Cost-Effective Essential

HMI SOFTWARE

perfect project

Crouzet Touch Soft

> Easy-to-use graphic software &

pre-configured communication

> Wide range of tools to develop the

SOLID STATE RELAYS



SINGLE-CHANEL

AC SINGLE-PHASE

Classic single relays available in multiple formats for any type of application

- > Panel Mount: Hockey-puck, Fast-on, Low-Profile and Mini-puck
- **> DIN-rail Mount**: 22.5 mm, 45 mm and 12
- > PCB Mount: SIP



MULTI-CHANNEL

AC SINGLE-PHASE

- 2 or 4 relays in one single package for space-saving needs
- Panel Mount: Hockey-puck and Fast-on

POWER SUPPLIES



MODULAR & **INDUSTRIAL**

- Compact offer of 12 & 24 VDC DIN-Rail Power Supplies
- > From 10 W to 480 W
- > Up to 90 % efficiency

LOAD DIAGNOSTICS

AC SINGLE-PHASE

Single relays and add-on modules with load monitoring functions for heating systems

- > Panel Mount: Hockey-puck
- > DIN-rail Mount: Module

SENSORS & CONVERTERS



TEMPERATURE & SIGNAL CONVERTER

TEMPERATURE

› Air, duct, submersible and NTC

Probes designed for simple & direct connection to Crouzet's Automation

SENSORS

Controllers

> Convert temperature (Pt 100, 1000, Thermocouple J & K), current and PWM signals to voltage for use with Crouzet's Controllers



CONTACTOR / REVERSER

AC 3-PHASE

Solid-state contactors for 3-phase heaters and motors' control

- Panel Mount: Contactor and Reverser
- > DIN-rail Mount: 90 mm Contactor



DC OUTPUT

DC relays to control motors, lighting and other applications working on a DC power

- > Panel Mount: Hockey-puck
- > DIN-rail Mount: 12 mm and 58 mm Reverser contactor
- > PCB Mount: SIP





Download it for FREE! https://www.crouzet.com/softwares/download

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AUTOMATION & CONTROL

TIMERS



UNIVERSAL DIGITAL

Syr-line

- > Super Multifunction with up to 138 operating functions
- > Universal connection
- > High-contrast LED screen
- > Precise time configuration
- > Limits and password settings
- > Program without power supply



PLUG-IN

Svr-line

- Compact body with 8 or 11 pin connections
- Easy and quick plug & play
- > Very large dial for an easy set up
- > Single or double output in the same package
- > Protective cover



HIGH-POWER

Syr-line

- > High-Power up to 16 Amps
- > Control more or bigger loads
- > Multi-function or Mono-function
- > Protective cover



DIGITAL 48X48

Svr-line TMR48-D

- Big digits in a large digital screen
- > Wide and long visibility
- Large buttons for an easy and quick programing
- > Water & Dust proof IP66



DOUBLE OUTPUT

Syr-line

- Double 8 Amps Output in the same 17.5 mm package
- > Second Relay can work instantaneously or delayed
- > Special functions: Alternator and Delayed Alternator



CLASSIC

Chronos 2

- > Multi-function or Mono-function
- > Multi-range
- > Multi-voltage
- > Screw or spring terminals



ANALOG 48X48

TMR48

- Large dial for an easy and quick programing
- > Multi-function or Mono-function
- > 8 or 11 pin connections
- > Multi-range from 0.02 s to 300 h

LARGE CHOICE OF TIMING FUNCTIONS







OFF-DELAY REPEAT-CYCLE

+ All timing functions on the market available

COUNTERS



ELECTRONIC

- > Hour counting, Impulse counting, Ratemeter, Chronometer, Batch counting and Preset functions
- > LED, LCD and backlight LCD
- > 48x24 and 48x48 mm sizes available



NEW

ELECTROMECHANICAL

- Hour counting and Impulse counting
- > Mechanical Dial visualization
- > 40x27, 42x29, 46x46, 48x48, 56x29, 56x46 and 93x35 mm sizes available

MONITORING RELAYS



ELECTRICAL MONITORING

Three-Phase

- > Protect AC motors, HVAC Systems, Pumps, Conveyors, Packaging Machines and other loads
- Monitor in 3-phase networks (120 to 480 VAC): phase sequence, phase failure, imbalance (asymmetry), over and undervoltage



CURRENT

Single-Phase

- > Detect over and under current in a single-phase network
- > Detection of 3 ranges: 2-500 mA, 0,1-10 A and 2-20 A
- > 2 packages available: 17.5 and 35 mm



VOLTAGE

Single-Phase

- > Detect over and undervoltage in a single-phase network
- > Detection of range: 0,2 to 600 VAC/DC
- > 2 packages available: 17.5 and 35 mm



LEVEL CONTROL

Pump up or down

- > Pump-up (filling), Pump-down (emptying)
- > Control one or two levels
- » Measuring ranges: 5-100 k Ω , 250- 1 M Ω



PROBES

Accessories

- > For use with level control relays
- > Electrode holder and protected suspension sensor





LOGIC GATES

On Sub-base & Plug-in

- > Functions: OR, AND, YES (Buffer), NOT (Inverter)
- > Operating pressure: 2 to 8 bar
- > Blue, green, yellow, orange, light grey, dark grey product colors



TIMERS

On Sub-base

- > Functions: positive, negative, impulse and frequency generator
- > Timing range: 0.1 to 60 s
- > Frequency range: 0,02 to 8 Hz
- > Operating pressure: 2 to 8 bar



COUNTERS

- > Totalizing, Preset functions
- > 4, 5, 6 digits with or without reset
- > With or without pre-selection



POSITION DETECTORS

- > Pressure decay sensor, low force position, microvalve, miniature, compact, adjustable stop versions
- > Permissive Fluids: Air, inert gas
- > Different plunger, lever, roller and rotary head options



PRESSURE & VACUUM **SWITCHES**

- > Vacuum pressure switches with electrical output
- Adjustable pressure switches with positive or negative output
- › Adjustable vacuum switches with pneumatics positive, negative or electrical output available





BUILDING



POWER GENERATION

AGRICULTURE









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Warning:

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