CROUZET

AUTOMATION & CONTROL

Selection Guide



WWW.CROUZET.COM

ABOUT CROUZET

100+ YEARS MANUFACTURING THE FUTURE *Together*

We design and manufacture **Mechatronic Products** to turn engineering ideas into real world applications.

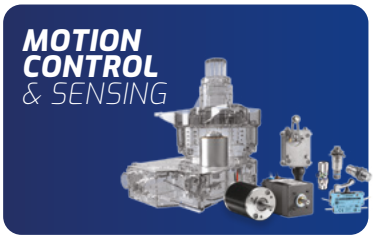
OUR MARKETS

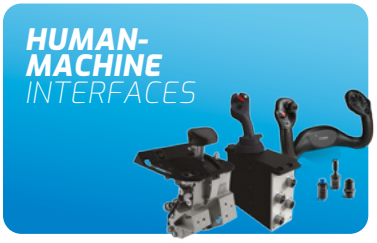






OUR PRODUCTS







OUR SERVICES

MRO	SPARES	INSTRUMENTATION

WE ARE GLOBAL

2,500+ People

15 Manufacturing Plants

9 Sales Offices & 5 R&D Centers





VALENCE SUD, **FRANCE**



VALENCE NORD, **FRANCE**



PARIS, **FRANCE**



NANTES, **FRANCE**



ORLEANS, **FRANCE**



VOUVRY, **SWITZERLAND**



CASABLANCA 1, **MOROCCO**



CASABLANCA 2, **MOROCCO**



HUIZHOU, **CHINA**



BANGALORE, **INDIA**

5 NEW MANUFACTURING PLANTS & 1 R&D CENTER IN FRANCE (INTEGRATION 2026)

Our Services

CROUZET | DESIGN LAB

100+ years of 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

High-quality and efficient manufacturing

Uncompromising and highest standards



CROUZET

BECAUSE DATA IS AT THE CENTER

Finding the technical specifications and marketing materials you need have never been that easy!

TASTE OUR SODA AT: SODA.CROUZET.COM



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CROUZET

TIMER RELAYS

- *Analog*
- *Digital*
- *DIN Rail Mount*
- *Panel Mount*



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CROUZET

PRESENTS

THE NEXT INNOVATION

INTO THE TIMERS MARKET



The ***New SYR-LINE*** *timer that* ***FITS ALL NEEDS***

UNIVERSAL DIGITAL TIMER

IDEAL FOR:

HVAC · Motors · Pumps · Machinery · Lights · AND MANY MORE

Get To Know The New « Universal Digital Timer »



WHY A DIGITAL TIMER INSTEAD OF YOUR CLASSICAL ANALOG?

Now see your timing and get the highest precision ever

Monitor the status of the timer, see the current time, the function and timing configurations, as well as if you are receiving an input signal or if the relay output is activated.
A digital timer that allows precise timing configuration, removing the guesswork from manual adjustments. Select the exact timing, as precise as you require, without the need of special tools like a screwdriver or a smartphone.

You set the limits, with 2 great optional features

- **Password setting:** lock user access by password
- **Time limit setting:** change time only between the limits you allow

TIMERS

IT'S UNIVERSAL

Get the only ultra-multifunction **Up to 138 real functions**

This digital timer includes ALL the functions you need to run your applications, from the classics like **on-delay «A»** or **off-delay «C»**, to special ones like **repeat cycle «L»**. It also allows you to adapt them and **get up to 138 real operating functions in one single product.**

One timer fits all

No matter the application, this timer gets the job done. A wide time range, universal mounting connection, and the ability to accept universal voltage input makes this timer ideal for new designs or replacement of existing timers.





AS SIMPLE TO USE AS AN ANALOG TIMER

Program with or without power supply thanks to the integrated battery*

Get it ready in just a few seconds, with only these 4 easy steps:

1. Select the **FUNCTION** — 23 basic
2. Choose the **RANGE** — Milliseconds to days
3. Configure the **COUNT STYLE** — Up/down
4. Activate the **MEMORY** — Yes/no

Or go as deep as you want customizing the **advanced mode**

Crouzet, the global leader in timers, has one for any of your needs



Take a look at our wide range of automation and control products at **www.crouzet.com**

Selection Guide - Timers

Crouzet's Timers

Crouzet, specialist in Time Delay Relays, has been introducing new timer products and technologies for more than 50 years. Our timers continue to evolve with more features and functionality.

Timer Features

- All the most popular functions: on-delay, off-delay, repeat cycle and many more
- Many Options: Analog, Digital, DIN Rail, Panel Mount, Plug-In
- DesignLab for custom adaptations, 100+ years of Engineering expertise at your service.

DIN RAIL MOUNT

Type	Function	Time range	Output	Supply		Special Characteristics	Width	Mounting	Designation	Part Number
 **Universal Digital** Syr-Line	Super Multifunction Z*	0,1 s ➞ 100 days	1 x 8 A (Changeover)	12-240 VAC/DC		Universal connections, Timing limits, Password protection, easy to use	**17.5 mm**	DIN Rail	DZ1R	DZ1R08MV1
 **High-Power** Syr-Line	Multifunction M*+ Tt	0,1 s ➞ 10 days	1 x 16 A (Changeover)	12-240 VAC/DC		Protective Cover	**17.5 mm**	DIN Rail	BM1R	BM1R16MV1
	A: ON-Delay								BA1R	BA1R16MV1
	L/Li: Repeat Cycle								BL1R	BL1R16MV1
 **Double Output** Syr-Line	Multifunction M* + Instantaneous	0,1 s ➞ 10 days	2 x 8 A (Changeover)	12-240 VAC/DC		Protective Cover	**17.5 mm**	DIN Rail	BM2R	BM2R08MV1
	A: ON-Delay								BA2R	BA2R08MV1
	L/Li: Repeat Cycle								BL2R	BL2R08MV1
	Multifunction U*	0,1 s ➞ 100 h	1 x 8 A (Changeover)	12-240 VAC/DC		-	**17.5 mm**	DIN Rail	MUR3	88 827 103
	Multifunction U*			24 VDC / 24-240 VAC					MUR1	88 827 105
	Multifunction X*								MXR1	88 827 185
 **Classic** Chronos 2	A-At: ON-Delay/Summation	0,1 s ➞ 100 h	1 x 8 A (Changeover)	24 VDC / 24-240 VAC		-	**17.5 mm**	DIN Rail	MAR1	88 827 115
	B: Single Shot								MBR1	88 827 125
	C: Off-Delay								MCR1	88 827 135
	H/Ht: Interval + Memory								MHR1	88 827 145
	L/Li: Repeat Cycle								MLR1	88 827 155
	Multifunction U*	0,1 s ➞ 100 h	1 x 0.7 A (Static)	24-240 VAC		Static Output	**17.5 mm**	DIN Rail	MUS2	88 827 004
	H/Ht: Interval + Memory								MHS2	88 827 044
	L/Li: Repeat Cycle								MLS2	88 827 054
	A: ON-Delay			24-240 VAC/DC					MAS5	88 827 014
	Q: Star-Delta	0,1 s ➞ 1 h	2 x 5 A (Open contact)	24 VDC / 24-240 VAC		-	**17.5 mm**	DIN Rail	RQR1	88 827 175
	Multifunction X*+W	0,1 s ➞ 100 h	2 x 8 A (Changeover)				**22.5 mm**		RX2R1	88 866 385 N
	Multifunction U*			12-240 VAC/DC					RU2R3	88 866 303 N
	K: True Off-Delay	0,6 s ➞ 160 s		24 VDC / 24-240 VAC					TK2R1	88 865 266

Super Multifunction Z*: (A - Ab - Ac - Ad - Ah - At - B - Bw - C - D - Di - H - Ht - L - Li - O - N - P - Pt - T - TL - Tt - W) + options

Multifunction M*: (A - Ac - At - B - C - D - Di -H - Ht -N - TL)

Multifunction U*: (A - Ac - At - B - Bw - C - D - Di - H - Ht)

Multifunction X*: (Ad - Ah - N - O - P - Pt - Tl - Tt)

Selection Guide - Timers

PANEL MOUNT

Type	Function	Time range	Output	Supply	
 **Plug-in** Syr-Line	Multifunction U* + Ad, Instantaneous	0,5 s ➞ 10 days	2 x 10 A (Changeover)	12-240 VAC/DC	
	A: ON-Delay				
	C: Off-Delay				
	L: Repeat Cycle				
	Multifunction U* + Ad, N		1 x 10 A (Changeover)		
	A: ON-Delay		2 x 10 A (Changeover		
	C: Off-Delay		1 x 10 A (Changeover)		
	L: Repeat Cycle				
 **TMR48D Digital Performance** Syr-Line	Multifunction S*	0,001 s ➞ 9999 h	2 x 10 A (Changeover)	12-240 VAC/DC	
	Multifunction F*		1 x 10 A (Changeover)		
	Multifunction F*				
	A: ON-Delay		2 x 10 A (Changeover		
 **TMR48D Digital Essential** Syr-Line	Multifunction E*	0,001 s ➞ 9999 h	1 x 5 A (Changeover)	24 VAC/DC	
	Multifunction E*			100-240 VAC/DC	

Multifunction S*: (A - Ab - Ac - Ad - AMt - At - B - C - H - Ht - L - Li - T - W - D - Di)

Multifunction F*: (A - Ac - Ad - B - C - H - L - Li - D - Di)

Multifunction E*: (A - B - C - H - D - Di)

Multifunction U*: (A - Ac - At - B - Bw - C - D - Di - H - Ht)

	Special Characteristics	Width	Mounting	Designation	Part Number
	Protective Cover	35 mm	11-Pin	PU2R	PU2R10MV1
				PA2R	PA2R10MV1
				PC2R	PC2R10MV1
				PL2R	PL2R10MV1
			8-Pin	OU1R	OU1R10MV1
				OA2R	OA2R10MV1
				OC1R	OC1R10MV1
				OL1R	OL1R10MV1
	LED, IP66	48 mm	11-Pin	GDS2	GDS2R10MV2
				GDF1	GDF1R10MV2
			8-Pin	MDF1	MDF1R10MV2
				MDA2	MDA2R10MV2
	LCD, IP66	48 mm	8-Pin	MDE1	MDE1R0524U
				MDE1	MDE1R05MVA

PNEUMATIC & ATEX PNEUMATIC TIMERS

Type	Function	Information	
 On Sub-base	Positive	See page 80	
	Negative		
	Impulse Generator		
	Frequency Generator		

TIMERS' ACCESSORIES

Type	Compatibility	Description	
 Socket	· TMR48D · Plug-In	8-Pin DIN Rail Base	25 622 130
		11-Pin DIN Rail Base	25 622 080
		8-Pin Screw Terminals	25 622 203
		11-Pin Screw Terminals	79 694 002
		8-Pin Solder Plug	25 622 301
		11-Pin Solder Plug	25 622 076
Adaptor	· Syr-Line · Chronos 2	DIN Rail to Panel Mount	79 237 806

Selection Guide - Timing Functions

Diagrams

U: Power Supply R: Output Relay T: Timing ∞Infinity C (Y1): Command

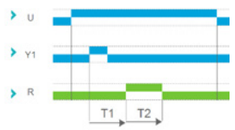
A Function



ON-Delay

After power-up, timing starts, and relay turns ON at the end of timing

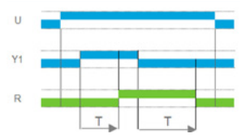
Ab Function



Delay Interval

After a signal, timing 1 starts and relay turns ON. Then timing 2 starts and relay turns off

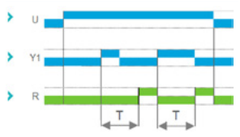
Ac Function



On/Off Delay

After a signal, timing 1 starts and relay turns ON. After signal is removed, timing 2 starts and relay turns OFF

Ad Function



Delay on Start

After a signal, timing starts, and relay turns ON at the end of timing

Ah Function



Triggered Flashing Cycle

After a signal, timing starts, and relay turns ON. Then timing starts again, and relay turns off

At Function



Summation time relay

After absence of an input signal equals the selected time, relay turns ON

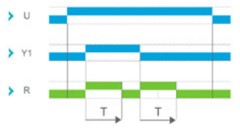
B Function



Single Shot

After a signal, relay turns ON and timing starts; At the end of the timing, relay turns OFF

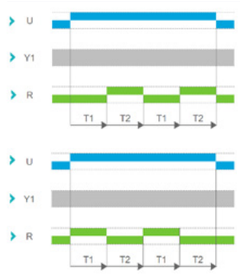
Bw Function



Pulse output

Each time a signal changes state; relay turns ON for the selected timing

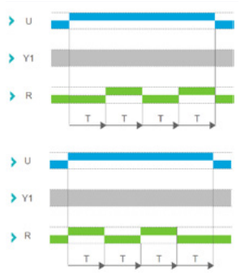
L/Li Function



Repeat Cycle

After power-up, a repetitive cycle of independent timing starts
L: Start in OFF position
Li: Start in ON position

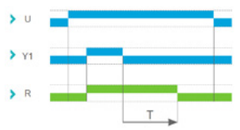
D/Di Function



Flasher

After power-up, a repetitive cycle of equal timing starts
D: Start in OFF position
Di: Start in ON position

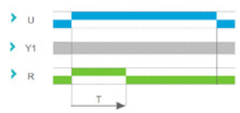
C Function



OFF-Delay

After a signal, relay turns ON. When signal is removed, timing starts, and relay turns OFF at the end of timing

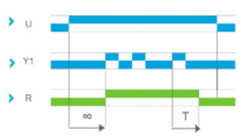
H Function



Interval

After power-up, relay turns ON and timing starts; At the end of the timing, relay turns OFF

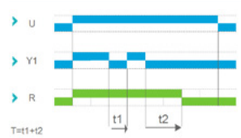
N Function



Watchdog

After a signal, relay turns ON. When signal is sent, timing resets. If timing is completed relay turns OFF

Ht Function



Interval with Memory

After absence of an input signal equals the selected time, relay turns OFF

O Function



Delayed Watchdog

After power-up, timing starts, and relay turns ON at the end of timing. When signal is sent, timing and relay resets

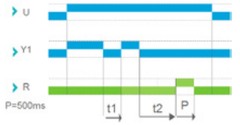
P Function



Pulse Delay Relay

After power-up, timing starts, and relay turns ON for 500ms at the end of timing

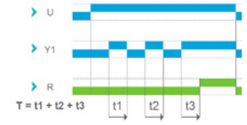
Pt Function



Impulse Counter

After absence of an input signal equals the selected time, relay turns ON for 500ms

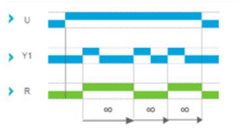
T Function



On-Delay: Sum of times

After summation of an input signal equals the selected time, relay turns ON

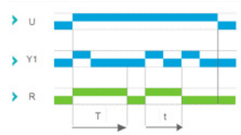
Tl Function



Latching

Each time a signal is sent, relay changes state

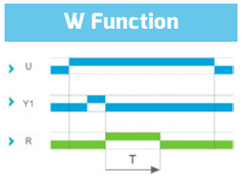
Tt Function



Delayed Latching

After a signal, relay turns ON and timing starts; At the end of the timing, relay turns OFF. Signal can stop timing

W Function



Timing after pulse of control contact

After a signal is removed, relay turns ON and timing starts; At the end of the timing, relay turns OFF

For more detailed diagrams or the diagrams of special functions, please visit www.crouzet.com

CROUZET

MONITORING RELAYS

- *Three-Phase*
- *Voltage*
- *Current*
- *Level Control*



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Selection Guide - Monitoring Relays

Crouzet's Monitoring Relays

In industrial and commercial installations, every device should be monitored by a Crouzet Monitoring Relay to optimize continuity of service. The control relay enables the operator to initiate maintenance operations or corrective actions to avoid expensive production shutdowns.

Monitoring Relay Features

- Protect AC motors, HVAC Systems, Pumps, Conveyors, Packaging Machines and other loads.
- Many Options: Three-phase and single phase, voltage, current, level monitoring
- UL, CCC and CE certified

MONITORING RELAYS

Type	Function	Measuring Range	Output	Power Supply	Width	Mounting	Designation	Part Number
 **Three-Phase**	Voltage (over and under voltage)	194-528 VAC	2 x 6 A (Changeover)	220-480 VAC	35 mm	DIN Rail	H3US	84 873 220
		183-528 VAC	1 x 8 A (Changeover)	208-480 VAC			M3US	84 873 222
	Voltage | Phase failure Detection	96-332 VAC	2 x 5 A (Changeover)	120-277 VAC			H3USN	84 873 221
	Phase sequence | Phase failure detection	183-528 VAC	1 x 8 A (Changeover)	208-480 VAC	17.5 mm		MWS	84 873 029
			2 x 6 A (Changeover)	208-440 VAC			MWS2	84 873 021
	Phase sequence and failure detection | Undervoltage			208-480 VAC			MWG	84 873 022
	Phase sequence and failure detection | Asymmetry		1 x 8 A (Changeover)				MWU	84 873 023
		194-528 VAC			35 mm		MWA	84 873 024
 **Voltage**	Over and Undervoltage | Selectable latching memory	9-15 VDC	1 x 5 A (Changeover)	12 VDC	17.5 mm	DIN Rail	MUS12	84 872 140
		0.2-60 VAC/DC	2 x 5 A (Changeover)	24-240 VAC/DC	35 mm		HUL	84 872 120
					22.5 mm		EUL	84 872 025
	Voltage (over and under voltage)	20-80 VAC/DC	1 x 5 A (Changeover)	24-48 VAC/DC	17.5 mm		MUS80	84 872 141
							MUSF80	84 872 151
	Voltage | Selectable latching memory function	65-260 VAC/DC		110-240 VAC/DC			MUS260	84 872 142
	Voltage (over and under voltage)						MUSF260	84 872 152
	Voltage | Selectable latching memory function	15-600 VAC/DC	2 x 5 A (Changeover)	24-240 VAC/DC	35 mm		HUH	84 872 130
					22.5 mm		EUH	84 872 035
 **Current**	Current | Selectable latching memory function	2-500 mA	2 x 5 A (Changeover)	24-240 VAC/DC	35 mm	DIN Rail	HIL	84 871 120
			1 x 5 A (Changeover)		22.5 mm		EIL	84 871 025
		0.1-10 A	2 x 5 A (Changeover)		35 mm		HIH	84 871 130
			1 x 5 A (Changeover)		22.5 mm		EIH	84 871 035
	Current (Over and Undercurrent)	2-20 A	1 x 10 A (Changeover)		17.5 mm		MIC	84 871 122
 **Liquid Level Control**	Pump up or down	5 - 100 kΩ	1 x 8 A (Changeover)	24-240 VAC/DC	17.5 mm	DIN Rail	ENR	Coming soon
		250 Ω - 1 MΩ			17.5 mm		ENRM	Coming soon
			2 x 8 A (Changeover)		22.5 mm		HNM	84 870 700

ACCESSORIES

Type	Description	Compatibility	Part Number
 Probes	Resisitive Stainless style probe	ENR / ENRM / HNM	79 696 015
	Resisitve Stainless Steel Prob +165°C		79 696 016

CROUZET

COUNTERS

- *Electrical*
- *Electromechanical*
- *Preset*
- *Multifunction*



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Selection Guide - Counters

Crouzet's Counters

Count the number of parts, events, or actions or the running time of equipment, to inform or trigger an action or intervention. Very useful for scheduling preventive maintenance on machines or production lines.

Counter Features

- Great visualization, either by LCD screen, LED screen or Mechanical Dials
- Hour Counters, Impulse Counters, Preselection, Chronometer, Ratemeter
- Many Options: Electronic and Electromechanical, Clip or Screw Mounting, different sizes and supply

ELECTRONIC COUNTERS

Type	Visualization	Inputs	Output	Power Supply	Size	Digits	Fixing	Designation	Part Number
 Hour Counter	LCD	PNP	-	10-260 VAC/DC	48 x 24 mm	8 Digits	Clip	CTR24	87 622 161
	LCD	NPN		Battery					87 622 162
	LCD	Voltage							87 622 170
	Backlight LCD								87 622 190
 Impulse Counter	LCD	PNP	-	10-260 VAC/DC	48 x 24 mm	8 Digits	Clip	CTR24	87 622 061
	LCD	NPN		Battery					87 622 062
	LCD	Voltage							87 622 070
	Backlight LCD	PNP		10-260 VAC/DC					87 622 081
	Backlight LCD	Voltage		Battery					87 622 090
 **Multifunction 1*** (Impulse Counter, Hour Counter, Ratemeter)	LED	NPN or PNP	-	10-30 VDC	48 x 24 mm	6 Digits	Clip	CTR24L	87 623 570
 Preset Chronometer	Backlight LCD	PNP/NPN/Voltage	**1** · 1 x 3 A (Changeover)	10-30 VDC	48 x 48 mm	6 Digits	Clip	CTR48E	87 629 111
	Backlight LCD			230 VAC					87 629 114
 **Multifunction 2*** (Preset, Multi-Totalizer, Chronometer, Ratemeter)	Backlight LCD	PNP/NPN/Voltage	**2** · 1 x 5 A (Changeover) + · 1 x 30 mA (SSR)	10-30 VDC	48 x 48 mm	6 Digits	Clip	CTR48	87 621 111
	Backlight LCD			24 VAC					87 621 112
	Backlight LCD			90-260 VAC					87 621 115
	LED	PNP/NPN/Voltage	**2** · 1 x 5 A (Changeover) + · 1 x 30 mA (SSR)	10-30 VDC					87 621 211
	LED			24 VAC					87 621 212
	LED			90-260 VAC					87 621 215
 **Multifunction 3*** (Double Preset, Multi-Totalizer, Chronometer, Ratemeter, Batch Counter)	Backlight LCD	PNP/NPN/Voltage	**4** · 1 x 5 A (Changeover) + · 1 x 5 A (N/O) + · 2 x 30 mA (SSR)	10-30 VDC	48 x 48 mm	6 Digits	Clip	CTR48	87 621 121
	Backlight LCD			24 VAC					87 621 122
	Backlight LCD			90-260 VAC					87 621 125
	LED	PNP/NPN/Voltage	**4** · 1 x 5 A (Changeover) + · 1 x 5 A (N/O) + · 2 x 30 mA (SSR)	10-30 VDC					87 621 221
	LED			90-260 VAC					87 621 225

Selection Guide - Counters

ELECTROMECHANICAL COUNTERS

Type	Visualization	Input	Output	Power Supply	Size	Digits	Fixing	Designation	Part Number
 Hour Counter	Mechanical Dial	-		90-264 VAC	48 x 48 mm	6 Digits	Clip	CHM48	99 772 602
 Hour Counter	Mechanical Dial	-	-	10-80 VDC	40 x 27 mm	6 Digits	Clip	CHM40x27	99 783 810
				4-36 VAC/DC					99 783 710
 Hour Counter	Mechanical Dial	-	-	90-264 / 270-460 VAC	93 x 36 mm	6 Digits	DIN Rai	CHMDR	99 793 714N
				4-36 VAC/DC					99 793 710N
				10-80 VDC					99 793 810N
 Impulse Counter	Mechanical Dial	-	-	230 VAC	56 x 29 mm	6 Digits	Clip	CIM56x29	99 774 608
				24 VAC					99 774 603
				24 VDC					99 774 602
				48 VDC					99 774 604
				110 VDC					99 774 606
 Impulse Counter	Mechanical Dial	-	-	230 VAC	56 x 46 mm	6 Digits	Screw	CIM56x46	99 775 609
				24 VAC					99 775 604
				24 VDC					99 775 603
				48 VDC					99 775 606
				110 VDC					99 775 608
 Impulse Counter **+ Reset**	Mechanical Dial	-	-	230 VAC	56 x 29 mm	6 Digits	Clip	CIM56x29	99 774 618
				24 VAC					99 774 613
				24 VDC					99 774 612
				48 VDC					99 774 614
				110 VDC					99 774 616
 Impulse Counter **+ Reset**	Mechanical Dial	-	-	230 VAC	56 x 46 mm	6 Digits	Screw	CIM56x46	99 775 619
				24 VAC					99 775 613
				24 VDC					99 775 612
				48 VDC					99 775 615
				110 VDC					99 775 617
 Impulse Counter **+ Reset**	Mechanical Dial	-	-	230 VAC	46 x 46 mm	4 Digits	Screw	CIM46	99 775 418
				24 VAC					99 775 413
				24 VDC					99 775 412
				110 VDC					99 775 416
 Impulse Counter **+ Reset**	Mechanical Dial	-	-	230 VAC	42 x 29 mm	4 Digits	Clip	CIM42x29	99 774 418
				24 VAC					99 774 413
				24 VDC					99 774 412
				48 VDC					99 774 414
				110 VDC					99 774 416

PNEUMATIC COUNTERS

Type	Function	Information
 Impulse Counter	Mechanical Dial	See page 26 - 92

PNEUMATIC COUNTERS

Type	Function	Information
 Impulse Counter **+ Reset**	Mechanical Dial	See page 26 - 92

CROUZET

SOLID STATE RELAYS

- *AC Voltage: Single Phase & Three Phase*
- *AC Voltage Multichannel*
- *DC Voltage*
- *Smart SSR*



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SOLID STATE RELAYS SPECIALIST

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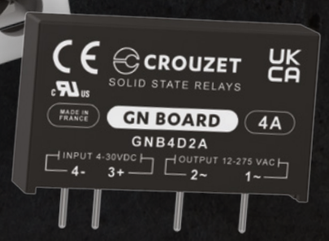


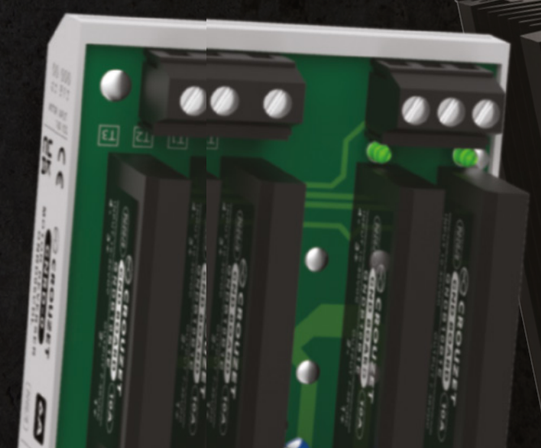















L1
T1
L2
T2
2x25A
CROUZET
SOLID STATE RELAYS
GN2 FASTON
84140000N
UK CA
A1 -
A2 +
B1 -
B2 +

Selection Guide - SSR

Crouzet's Solid State Relays

A series of multipurpose Solid State Relays, in both panel mount, DIN Rail mount and PCB mount.
To switch DC loads from 4 to 40 A / 5 to 200 VDC, and switch AC loads from
4 A to 125 A / 24 to 660 VAC.

Solid State Relays Features

- Removable covers and output protection included
- Smart load diagnostic versions
- Resistive, Inductive an Capacitive loads

AC VOLTAGE SINGLE PHASE

Type	Output		Input	Certifications		Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Current	Voltage	Voltage								
 **GNA** Essential Version	25 A	24-280 VAC	4-32 VDC	cЯUus, CE		Panel Mount "Hockey Puck"	Zero Cross	**Resistive Loads:** • Heating	• To use in simple applications	GNA25DZL	84137910N
	40 A	48-660 VAC		cЯUus, CE, VDE						GNA40DZH	84137450N
	50 A									GNA50DZH	84137460N
	90 A									GNA90DZH	84137480N
 **GN** Classic Version	10 A	24-280 VAC	4-32 VDC	cЯUus, CE, VDE		Panel Mount "Hockey Puck"	Zero Cross	**Resistive Loads:** • Heating • Lighting	• Output Protection Included (TVS)	GN10DZL	84137000N
	10 A		20-265 VAC	cЯUus, CE						GN10AZL	84137001N
	25 A	48-660 VAC	4-32 VDC	cЯUus, CE, VDE						GN25DZL	84137010N
	25 A		18-36V AC/DC	cЯUus, CE						GN25CZL	84137012N
	25 A		20-265 VAC							GN25AZL	84137011N
	25 A	48-660 VAC	4-32 VDC	cЯUus, CE, VDE						GN25DZH	84137110N
	25 A		20-265 VAC	cЯUus, CE						GN25AZH	84137111N
	50 A	48-660 VAC	4-32 VDC	cЯUus, CE, VDE						GN50DZH	84137120N
	50 A		18-36V AC/DC	cЯUus, CE						GN50CZH	84137122N
	50 A		20-265 VAC							GN50AZH	84137121N
	75 A	48-660 VAC	4-32 VDC	cЯUus, CE, VDE						GN75DZH	84137130N
	75 A		20-265 VAC	cЯUus, CE						GN75AZH	84137131N
	100 A	48-660 VAC	4-32 VDC	cЯUus, CE, VDE						GN100DZH	84137140N
	100 A		20-265 VAC	cЯUus, CE						GN100AZH	84137141N
	125 A	48-660 VAC	4-32 VDC	cЯUus, CE, VDE						GN125DZH	84137180N
	125 A		20-265 VAC	cЯUus, CE						GN125AZH	84137181N
	25 A	24-280 VAC	4-32 VDC	cЯUus, CE, VDE		Panel Mount "Hockey Puck"	Random (Instan-taneous)	**Inductive Loads:** • Motion • Miscellaneous (high inductive loads, very strong magnetising currents, overvoltages)	• Output Protection Included (RC Snubber)	GN25DRL	84137210N
	25 A		90-260 VAC							GN25ARL	84137211N
	50 A	48-660 VAC	4-32 VDC	cЯUus, CE, VDE						GN50DRL	84137320N
	50 A		90-260 VAC							GN50ARH	84137321N
	75 A	48-660 VAC	4-32 VDC	cЯUus, CE, VDE						GN75DRH	84137330N
 **GN+** Performance Version	25 A	12-270 VAC	4-32 VDC	cЯUus, CE, VDE		Panel Mount "Hockey Puck"	Special Zero Cross	**Resistive Loads:** • Heating • Lighting **Inductive Loads:** • Motion • Miscellaneous (High inductive loads) **Capacitive Loads:** • Miscellaneous (Strong inrush current)	• Output Protection Included (VDR) • High Immunity (Level A) • Thermal Pad Included	GNP25DZL	84138010N
	25 A		20-260 VAC/DC							GNP25UZL	84138013N
	50 A	24-500 VAC	4-32 VDC	cЯUus, CE, VDE						GNP50DZM	84138120N
	50 A		20-260 VAC/DC							GNP50UZM	84138123N
	90 A	24-500 VAC	4-32 VDC	cЯUus, CE, VDE						GNP90DZM	84138150N
	90 A		20-260 VAC/DC							GNP90UZM	84138153N
	125 A	24-500 VAC	4-32 VDC	cЯUus, CE, VDE						GNP125DZM	84138180N
	125 A		20-260 VAC/DC							GNP125UZM	84138183N

AC VOLTAGE SINGLE PHASE

Type	Output		Input	Certifications		Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Current	Voltage	Voltage								
 **GNR** Classic Version	20 A	24-280 VAC	4-32 VDC	cЯUus, CE		DIN Rail 22.5 mm	Zero Cross	**Resistive Loads:** • Heating • Lighting	• Output Protection Included	GNR20DCZL	GNR20DCZL
	20 A	48-660 VAC	4-32 VDC							GNR20DCZH	GNR20DCZH
	20 A		80-140 VAC							GNR20BCZH	GNR20BCZH
	20 A		180-280 VAC							GNR20ACZH	GNR20ACZH
	30 A	48-660 VAC	4-32 VDC							GNR30DCZH	GNR30DCZH
	30 A		80-140 VAC							GNR30BCZH	GNR30BCZH
	30 A		180-280 VAC							GNR30ACZH	GNR30ACZH
	30 A	24-500 VAC	4-32 VDC	cЯUus, CE, VDE		DIN Rail 22.5 mm	Random	**Inductive Loads:** • Motion • Miscellaneous	• Output Protection Included (RC Snubber)	GNR25DCRH	GNR25DCRH
 **GNR+** Performance Version	30 A	24-500 VAC	4-32 VDC	cЯUus, CE, VDE		DIN Rail 22.5 mm	Zero Cross	**Resistive Loads:** • Heating • Lighting **Inductive Loads:** • Motion • Miscellaneous (High inductive loads) **Capacitive Loads:** • Miscellaneous (Strong inrush current)	• Output Protection Included (VDR) • High Immunity (Level A)	GNR30DCZP	GNR30DCZP
	30 A		180-280 VAC							GNR30ACZP	GNR30ACZP
	32 A		4-32 VDC							GNR32DCZP	GNR32DCZP
	45 A		4-32 VDC	cЯUus, CE		DIN Rail 45 mm				GNR45DCZP	GNR45DCZP
 **GNF** Specialized Version	25 A	24-280 VAC	4-30 VDC	cЯUus, CE, UKCA		Panel Mount "Hockey Puck"	Zero Cross	**Resistive Loads:** • Heating • Lighting	• FAST-ON terminals	GN20DFZL	84134017N
 **GN MINI** Specialized Version	20 A	24-280 VAC	4-30 VDC	cЯUus, CE, UKCA		Panel Mount "Mini Puck"	Zero Cross	**Resistive Loads:** • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GNM20DFZL	84132010N
 **GNZ** Specialized Version	8 A	24-280 VAC	4-32 VDC	cЯUus, CE, UKCA		Panel Mount "Low profile"	Zero Cross	**Resistive Loads:** • Heating • Lighting	• Output Protection Included (VDR) • FAST-ON terminals	GNZ8DFZL	84132210N
							Random	**Inductive Loads:** • Motion • Miscelaneous		GNZ8DFRL	84132110N
 **GN Board** Classic Version	4 A	12-275 VAC	4-30 VDC	cЯUus, CE, UKCA		PCB Mount	Special Zero Cross	**Resistive Loads:** • Heating • Lighting **Inductive Loads:** • Miscellaneous (High inductive loads) **Capacitive Loads:** • Miscellaneous (Strong inrush current)	• Output Protection Included (TVS)	GNB4D2A	GNB4D2A
		12-460 VAC								GNB4D2B	GNB4D2B
	4 A	24-600 VAC	4-10 VDC	cЯUus, CE, UKCA		PCB Mount	Zero Cross	**Resistive Loads:** • Heating	-	GNB4D1C	GNB4D1C
 **GNR Mini** Classic Version	4 A	12-275 VAC	6-30 VDC	CE, UKCA		DIN Rail	Special Zero Cross	**Resistive Loads:** • Heating • Lighting **Inductive Loads:** • Miscellaneous (High inductive loads)	• Output Protection Included (VDR)	GNRM4D2A	GNRM4D2A
		12-460 VAC	12-30 VAC / 8,5-30 VDC							GNRM4B1B	GNRM4B1B

AC VOLTAGE MULTICHANNEL

Type	Output		Input	Certifications					
	Current	Voltage	Voltage			Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 **GN2/GN2F** 2-Channel	25 A	24-280 VAC	10-30 VDC	cяUus, CE, UKCA		Panel Mount "Hockey Puck"	Zero Cross	**Resistive Loads:** • Heating • Lighting	• Two SSRs in One package	GN225DZL	84140013N
	25 A		4-32 VDC						• Fast-ON terminals	GN225DFZL	84140800N
	50 A	48-660 VAC	4-32 VDC				Zero Cross	**Resistive Loads:** • Heating • Lighting	• Two SSRs in One package	GN250DZL	84140603N
	50 A	48-660 VAC	10-30 VDC							GN250DZH	84140613N
	50 A	24-510 VAC	10-30 VDC				Random	**Inductive Loads:** • Motion • Miscellaneous		GN250DRH	84140631N
 **GN4** 4-Channel	25 A	12-280 VAC	4-32 VDC	cяUus, CE, UKCA		Panel Mount "Hockey Puck"	Special Zero Cross	**Resistive Loads:** • Heating • Lighting **Inductive Loads:** • Motion • Miscellaneous **Capacitive Loads:** • Miscellaneous	• Four SSRs in one package	GN425DFZL	84154010N

AC VOLTAGE THREE PHASE

Type	Output		Input	Certifications					
	Current	Voltage	Voltage			Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
 **GN3** Classic Version	25 A	24-510 VAC	4-32 VDC	cяUus, CE, UKCA		Panel Mount "Hockey Puck"	Zero Cross	**Resistive Loads:** • Heating • Lighting	• Output Protection Included (TVS)	GN325DSZH	GN325DSZH
	25 A						Random	**Inductive Loads:** • Motion • Miscelaneous		GN325DSRH	GN325DSRH
	25 A	24-510 VAC	24-255 V AC/DC				Special Zero Cross	**Resistive Loads:** • Heating, • Lighting **Inductive Loads:** • Motion • Miscellaneous (High inductive loads) **Capacitive Loads:** • Miscellaneous (strong inrush current)	• Output Protection Included (TVS)	GN325ASZH	GN325ASZH
	50 A	24-510 VAC	4-32 VDC				Zero Cross	**Resistive Loads:** • Heating • Lighting	• Output Protection Included (TVS)	GN350DSZH	GN350DSZH
	50 A						Random	**Inductive Loads:** • Motion • Miscelaneous	• Output Protection Included (RC, VDR)	GN350DSRH	GN350DSRH
	50 A	24-510 VAC	24-255 V AC/DC				Special Zero Cross	**Resistive Loads:** • Heating • Lighting **Inductive Loads:** • Motion • Miscellaneous (High inductive loads) **Capacitive Loads:** • Miscellaneous (Strong inrush current)	• Output Protection Included (TVS)	GN350ASZH	GN350ASZH

AC VOLTAGE THREE PHASE

Type	Output		Input	Certifications		Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Current	Voltage	Voltage								
 **GNR3** Classic Version	25 A	24-660 VAC	4-32 VDC	cЯUus, CE, UKCA		DIN Rail 90 mm	Zero Cross	**Resistive Loads:** • Heating • Lighting	• Output Protection Included (TVS)	GNR25DCZH	GNR25DCZH
	25 A	24-660 VAC	24-255 V AC/DC				Special Zero Cross	**Resistive Loads:** • Heating • Lighting **Inductive Loads:** • Motion • Miscellaneous (High inductive loads) **Capacitive Loads:** • Miscellaneous (strong inrush current)		GNR325ACZH	GNR325ACZH
 **GNO** Reverse Version	25 A	24-510 VAC	12-30 VDC	cЯUus, CE, UKCA		Panel Mount "Hockey Puck"	Special Zero Cross	**Resistive Loads:** • Heating • Lighting **Inductive Loads:** • Motion • Miscellaneous (High inductive loads) **Capacitive Loads:** • Miscellaneous (strong inrush current)	• Output Protection Included (RC, VDR) • Start/Stop/ Reverse in the same product	GNO25DSRL	GNO25DSRL
	50 A									GNO50DSRL	GNO50DSRL

DC VOLTAGE

Type	Output		Input	Certifications		Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Current	Voltage	Voltage								
 **GNAD** Essential Version	10 A	5-200 VDC	4-32 VDC	cЯUus, CE		Panel Mount "Hockey Puck"	DC Switching	**DC Loads:** • Heating • Motion • Lighting • Miscellaneous	• To use in simple applications	GNAD10DH	84137650N
	20 A	5-100 VDC								GNAD20DM	84137660N
	40 A	5-55 VDC								GNAD40DL	84137670N
 **GND** Classic Version	10 A	5-200 VDC	4-32 VDC	cЯUus, CE		Panel Mount "Hockey Puck"	DC Switching	**DC Loads:** • Heating • Motion • Lighting • Miscellaneous	• Output Protection Included (TVS*)	GND10DH	84137850N
	40 A	5-60 VDC								GND40DM	84137870N
 **GND Board** Classic Version	4 A	2-60 VDC	4-30 VDC	CE, UKCA		PCB Mount	DC Switching	**DC Loads:** • Heating • Motion • Lighting • Miscellaneous	-	GNDB4D2D	GNDB4D2D
	10 A	7-36 VDC	4-10 VDC							GNDB10D1E	GNDB10D1E
			10-30 VDC							GNDB10B1E	GNDB10B1E
 **GNRD MINI** Specialized Version	4 A	2-60 VDC	5-30 VDC	CE, UKCA		DIN Rail	DC Switching	**DC Loads:** • Lighting • Miscellaneous	• Output Protection Included (TVS)	GNRDM4D1C	GNRDM4D1C
			90-240 VAC/DC							GNRDM4A1C	GNRDM4A1C
 **GNRD-0** Specialized Version	6 A	7-36 VDC	7-30 VDC	CE, UKCA		DIN Rail	DC Switching	**DC Loads:** • Motion	• Output Protection Included (TVS)	GNRD06CDL	GNRD06CDL

Load Diagnostic: Smart SSR

Type	Output		Input	Certifications	
	Current	Voltage	Voltage		
 **GN Smart** Load Detection	50 A	24-600 VAC	4-32 VDC	cЯUus, CE, VDE	
	35 A	50-265 VAC	8-30 VDC		
	50 A	150-510 VAC			
	75 A				
 **GNR Smart Module** Load Detection	40 A	-	4-32 VDC	CE	
	40 A		24-45 VDC		

	Mounting	Switching	Usage (Load Type)	Comments	Designation	Part Number
	Panel Mount "Hockey Puck"	Zero Cross	Current Detection	-	GNS50DAZH	84136120N
		Zero Cross	Load Detection	-	GNS35DDZH	84139150N
					GNS50DDZH	84139120N
					GNS75DDZH	84139130N
	Module On GNR/GNR+	-	Current Detection	-	GNS40DDDR	84050040N
			Current & Diagnostic		GNS40FDDR	84050043N

ACCESSORIES

Type	Description	P/N
 **Heatsinks** For Panel Mount SSRs	0.9 °C/W Thermal Resistance	26532752N
	1.1 °C/W Thermal Resistance	26532753N
	1.2 °C/W Thermal Resistance	26532754N
	1.75 °C/W Thermal Resistance	26532755N
	2.2 °C/W Thermal Resistance	26532756N
	Heatsink screw mounting kit, for SSRs with Hockey Puck shape	26532001
	Heatsink screw mounting kit, for 3-phase SSRs	26532002
 **Adapters** For DIN Rail	DIN Rail Adaptor for SSRs with Hockey Puck shape	26532764N
 **Thermal Pads** For Heatsink Mounting	Pre-cut thermal pad	26532720N
	Self-adhesive thermal pad	26532722N

ACCESSORIES

Type	Description	P/N
 **Screws** For Heatsink Mounting	Screw Mounting Kit for Single & Dual-Phase SSR	26532001
	Screw Mounting Kit for 3-Phase SSR	26532002
 **Thermal Grease** For Heatsink Mounting	Thermal Grease	26532003
 **Label** For SSR identification	Label for SSR Identification	26532004
 **Connectors**	GN2, 4-Pin, 4 pole 90° & 270° set-screw connector	26532005
	GN2, 4-Pin, 4 pole 270° set-screw connector	26532006

CROUZET

AUTOMATION CONTROLLERS

- *Logic Controllers*
- *Communicating Logic Controllers*
- *Nano-PLCs*
- *Telecontrollers*



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Automation Controllers Selection Guide

		Simple & small applications	Simple applications	Connectivity needed	High-end & niche applications	Remote applications
		Slim Logic Controller	Logic Controller	Communicating Logic Controller	Nano-PLC	Telecontroller
						
		Millenium Slim	Millenium	Millenium Evo	em4 NANOPLC	em4 ALERT
INPUTS & OUTPUTS	Memory Capacity	1000 FB	2000 FB	1000 FB	2000 FB	2000 FB
	Number of I/Os	8	Up to 60	Up to 44	Up to 46	Up to 46
	Analog Inputs (CPU)	4	4	8	12	12
	4-20mA Inputs (CPU)	N/A	N/A	N/A	4	4
	High-Speed Digital Inputs	15 KHz	5 KHz	15 KHz	60 KHz	60 KHz
COMMUNICATION	Ethernet Embedded	NO	YES	YES	YES	N/A
	Modbus Interface	N/A	CLIENT/SERVER	SERVER	CLIENT/SERVER	CLIENT/SERVER
	Bluetooth Communication	YES	N/A	YES	YES	YES
	Mobile Communication (3G)	N/A	N/A	N/A	N/A	YES
	Datalog Number of Values	8 VALUES	24 VALUES	16 VALUES	24 VALUES	24 VALUES
	Event Number of Values	N/A	N/A	12 VALUES	24 VALUES	24 VALUES
		CROUZET SOFT (FBD-SFC)	CROUZET SOFT (LD-FBD-SFC)	CROUZET SOFT (FBD-SFC)		

LD: Ladder
FBD: Function Block Diagram
SFC: Sequential Function Chart

CROUZET Virtual Display is compatible with Slim, Millenium EVO, em4 and em4 Alert.
Web server available for Millenium.

CROUZET

Millenium Slim

THE SMALLEST LOGIC CONTROLLER EVER

Thousands of applications in your hand



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MILLENIUM SLIM

The smallest logic controller ever!

01. SPACE REDUCTION



The smallest logic controller ever, in a **17.5mm body** that fits in any panel or machine

02. MULTIPURPOSE



Replace several products in your control panel with this **highly configurable**, pocket-sized logic controller

03. INTERCONNECTIVITY



Give wireless capabilities to your applications via **Bluetooth** communication

04. SIMPLICITY



Easiest-to-use software and **Virtual Display** on your smartphone or PC.
+ Quick start with no cables
+ Fast maintenance



A MULTITUDE OF APPLICATIONS IN YOUR HAND

With our free **Virtual Display App** you get access to plenty of **pre-programmed applications** and the posibility to create and configure your own with **CrouzetSoft**, the easiest-to-use automation programming software available in the market.

Selection Guide - Automation

Crouzet's Automation Controllers

Automation for everyone! Easy to use and powerful Automation Controllers, adaptable for all kinds of projects - from the simplest to complex applications. Crouzet's Automation Controllers offer free software and are easy and intuitive to use, even for programming novices.

Automation Controller Features

- Graphic Programming language (FBD) and several ways of communication (3G, Ethernet, Modbus...)
- Many Options: 10-12 I/Os, 24-26 I/Os, Expandable. Digital/Analog Inputs. Relay/PWM outputs, etc.
- DesignLab for custom adaptations, 100+ years of Engineering expertise at your service

SLIM LOGIC CONTROLLER – MILLENIUM SLIM

***Millenium**Slim*, The smallest logic controller ever! For all your standalone small-scale applications

Type	Total I/Os	Convertible Inputs				Output Types		Embedded Communication	Embedded Screen	Power Supply	Comments	Designation	Part Number
		Digital	Analog	PWM	High-Speed	Digital	PWM						
 NEW **Slim Controller** Kit	**8 I/Os** · 4 Inputs · 4 Outputs	**4** · Classical Digital	-	-	-	**4** · 6A Relay	-	Bluetooth	Virtual only	110-240 VAC	• 17.5 mm body • DIN Rail & panel mount • Bluetooth programming	CB8R (AC)	88 983 903*
			4 · 0-10 VDC or 0-VCC	**2** · 10 Hz to 1 KHz	**2** · 5 KHz	**4** · 6A Relay	-			24 VDC		CB8R (DC)	88 983 901*
						-	**4** · 0.5A Static			24 VDC		CB8S (DC)	88 983 902*

* **88 983 903** (kit: 88 983 003 + connectors) - * **88 983 901** (kit: 88 983 001 + connectors) - * **88 983 902** (kit: 88 983 002+ connectors)

LOGIC CONTROLLER

Millenium, the logic controller of choice for 15+ years

Type	Total I/Os	Convertible Inputs		Output Types			Embedded Communication	Embedded Screen	Power Supply	Comments	Designation	Part Number
		To Digital	To Analog	Digital	PWM	Analog						
 **Expandable** Short - With Screen	**12 I/Os** · 8 Inputs · 4 Outputs	8	4	4 Relay	-	-	Ethernet TCP/IP	✓	12 VDC	-	MXD12	MXD12RD7ET
				4 Static	1				24 VDC			MXD12SD1ET
			-	4 Relay	-				100-240 VAC			MXD12RU3ET
 **Expandable** Short - No Screen		8	4	4 Relay	-	-	Ethernet TCP/IP	-	24 VDC	-	MXB12	MXB12RD7ET
			-						100-240 VAC			MXB12RU3ET
 SOON **Expandable** Long - With Screen	**26 I/Os** · 16 Inputs · 10 Outputs	16	0/6	10 Relay/ 10 Static	0/4	-	Ethernet TCP/IP	✓	12-24 VDC/ 100-240 VAC	More I/Os are possible by adding an expansion	MXD26	Coming soon*
				10 Static	4							
			-	10 Relay	-							
 **Expansion** Short - Digital	**8 I/Os** · 4 Inputs · 4 Outputs	4	-	4 Relay	-	-	-	-	110-230V AC/DC	-		MXR08U3
									24 V AC/DC			MXR08U1
									12-24 VDC			MXR08D7
				4 SSR					24 VDC			MXS08D1
 **Expansion** Long - Digital	**16 I/Os** · 8 Inputs · 8 Outputs	8	-	4 Relay	-	-	-	-	110-230V AC/DC	-		MXR16U3
									24 V AC/DC			MXR16U1
									12-24 VDC			MXR16D7
				8 SSR					24 VDC			MXS16D1
 **Expansion** Short - Analog	**2 I/Os** 2 Inputs		2 Analog (V/mA)	-					12-24 VDC			MXAI02D7
			2 RTD									MXAI02PD7
	2 I/Os 2 Outputs		-			2 Analog (V/mA)			24 VDC			MXAO02D1

*Current Millenium 3 26 I/Os is available at www.crouzet.com

Selection Guide - Automation

COMMUNICATING LOGIC CONTROLLER - MILLENIUM EVO

Millenium EVO, the logic controller of choice for all your projects requiring communication

Type	Total I/Os	Convertible Inputs		Output Types			Embedded Communication	Embedded Screen	Power Supply	Comments	Designation	Part Number
		To Digital	To Analog	Digital	PWM	Analog						
 **Screen Option** Local / Standalone	**24** · 16 Inputs · 8 Outputs	**16** · 12 to Classical Digital · 4 to Classical Digital or 15 KHz High-Speed	**8** · To 0-10 VDC or 0-VCC	**8** · 6 x 8 A · 2 x 6 A	-	-	-	✓	24 VDC	-	XDP24	88 975 101
 **Blind Option** Local / Standalone								-		-	XBP24	88 975 001
 **Screen Option** Ethernet Version	**24** · 16 Inputs · 8 Outputs	**16** · 12 to Classical Digital · 4 to Classical Digital or 15 KHz High-Speed	**8** · To 0-10 VDC or 0-VCC	**8** · 6 x 8 A · 2 x 6 A	-	-	Ethernet TCP/IP	✓	24 VDC	Embedded Ethernet Communication	XDP24-E	88 975 111
 **Blind Option** Ethernet Version								-		Embedded Ethernet Communication	XBP24-E	88 975 011
 **Expansion** Digital	**10** · 6 Inputs · 4 Outputs	**6** · Classical Digital	-	**4** · 2 x 8 A · 2 x 6 A			-	-	24 VDC	To control power actuators (valves, pumps...)	XRP10	88 975 201
 **Expansion** Analog			**4** · 0-10 VDC or 4 to 20 mA	-	**2** · 0.5 A Static	**2** · 0-10 VDC				To control analog actuators (controlled valve, controlled pump...)	XAP10	88 975 303

ACCESSORIES

Type	Compatibility	Description	P/N
 **Memory Cartridge** Memory Storage	· **Millenium**: Logic Controller	Memory Cartridge	MIMEMSD
 **Connectors** Pluggable	· **Millenium 3**	For 12 I/Os version	88 970 310
		For 20 I/Os version	88 970 311
		For 26 I/Os version	88 970 312
 **Modbus Interfaces**	· **Millenium:** Logic Controller	Modbus - Polarization	MI485P
		Modbus - No Polarization	MI485

Type	Compatibility	Description	P/N
 **Interfaces** For USB, Modbus or Bluetooth Communication	· **em4**: Nano-PLC · **em4 Alert**: Telecontroller · **Millenium EVO**: Communicating Logic Controller	USB programming	88 980 110
		Modbus - Polarization	88 980 123
		Modbus - No Polarization	88 980 122
		Bluetooth	88 980 112
		Bluetooth + PC Dongle	88 980 116
 **Antenna** For Cellular Network Communication	· **em4 Alert**: Telecontroller	Antenna 3M	88 980 160

Selection Guide - Automation

NANO-PLC - EM4

The PLC made simple, PLC performance with logic controller simplicity, for high-end applications

Type	Total I/Os	Convertible Inputs		Output Types			Embedded Communication	Embedded Screen	Power Supply	Comments	Designation	Part Number
		To Digital	To Analog	Digital	PWM	Analog						
 **Nano-PLC** Local / Standalone	**26** · 16 Inputs · 10 Outputs	**16** · 12 to Classical Digital · 4 to Classical Digital or 60 KHz High-Speed	**12** · 8 to 0-10 VDC or 0-VCC · 4 to 20 mA or 0-10 VDC	**8** · 6 x 8 A · 2 x 6 A	**2** · 0.5 A Static	-	-	✓	24 VDC	To use in local applications	B26	88 981 103
 **Starter Kit** Local / Standalone										em4 + Software + USB interface + USB cable	B26 Starter Kit	88 981 106
 **Nano-PLC** Ethernet Version	**26** · 16 Inputs · 10 Outputs	**16** · 12 to Classical Digital · 4 to Classical Digital or 60 KHz High-Speed	**12** · 8 to 0-10 VDC or 0-VCC · 4 to 20 mA or 0-10 VDC	**8** · 6 x 8 A · 2 x 6 A	**2** · 0.5 A Static	-	Ethernet TCP/IP	✓	24 VDC	Embedded Ethernet Communication	B26 ET	88 981 133
 **Starter Kit** Ethernet Version										em4 + Software + Ethernet RJ45 cable	B26 ET Starter Kit	88 981 136
 **Expansion** Digital	**10** · 6 Inputs · 4 Outputs	**6** · Classical Digital	**6** · 0-10 VDC or 0 VCC	**4** · 2 x 8 A · 2 x 6 A	-	-	-	-	24 VDC	To control power actuators (valves, pumps...)	E10R	88 982 113
 **Expansion** Analog			**6** · 0-10 VDC or 4 to 20 mA	-	**2** · 0.5 A Static	**2** · 0.-10 VDC				To control analog actuators (controlled valve, controlled pump...)	E10A	88 982 213

TELECONTROLLER - EM4 ALERT

em4 Alert has a built-in GSM modem to connect to any cellular network to control and monitor

Type	Total I/Os	Convertible Inputs		Output Types			Embedded Communication	Embedded Screen	Power Supply	Comments	Designation	Part Number
		To Digital	To Analog	Digital	PWM	Analog						
 **Telecontroller** 4G Version	**26** · 16 Inputs · 10 Outputs	**16** · 12 to Classical Digital · 4 to Classical Digital or 60 KHz High-Speed	**12** · 8 to 0-10 VDC or 0-VCC · 4 to 20 mA or 0-10 VDC	**8** · 6 x 8 A · 2 x 6 A	**2** · 0.5 A Static	-	4G Cellular Network	✓	24 VDC	Embedded GSM Modem	B26-4GS	88 981 143*
 **Starter Kit** 4G Version										em4 Alert + Antenna + Software + USB interface + USB cable	B26-4GS Starter Kit	88 981 146*
 **Expansion** Digital	**10** · 6 Inputs · 4 Outputs	**6** · Classical Digital	**6** · 0-10 VDC or 0-VCC	**4** · 2 x 8 A · 2 x 6 A	-	-	-	-	24 VDC	To control power actuators (valves, pumps...)	E10R	88 982 113
 **Expansion** Analog			**6** · 0-10 VDC or 4 to 20 mA	-	**2** · 0.5 A Static	**2** · 0-10 VDC				To control analog actuators (controlled valve, controlled pump...)	E10A	88 982 213

*Coming soon

CROUZET

Crouzet Soft

CROUZET SOFT

The Easiest-To-Use Automation Software on the Market

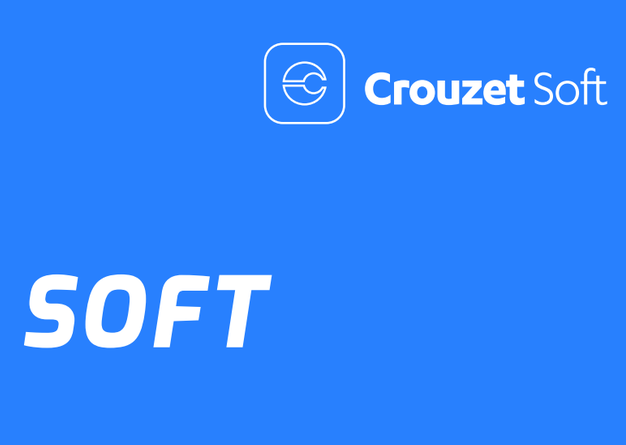
Powerful software for all kind of projects, from the simplest to very complex applications, designed to be easy even for non-programmers,

- *Visual Programming*
- *Learn while you play!*
- *You are in control of your application*

SIMPLY EASY

MORE THAN **120** FUNCTION BLOCKS

MEMORY UP TO **2000** FUNCTION BLOCKS



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CROUZET Virtual Display

CROUZET VIRTUAL DISPLAY

Access your controller screen and control buttons at a distance in real-time and change parameters from any of your PC's or mobile devices, either by

- *Bluetooth*
- *Ethernet network or*
- *USB*



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HMIs

- *Performance*
- *Essential*
- *4", 7", 10"*
- *Ethernet*



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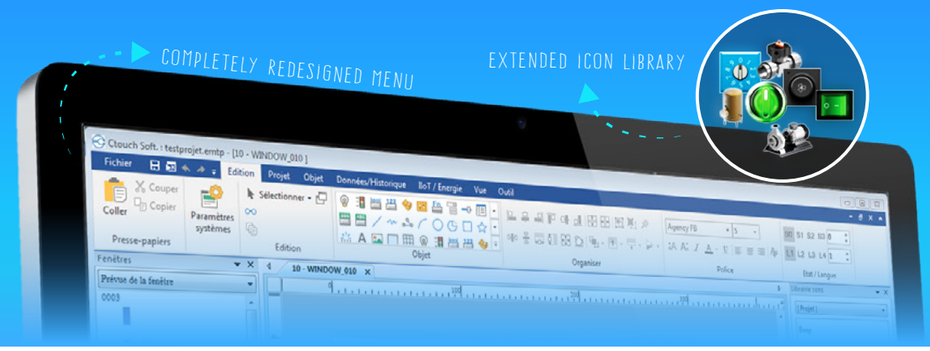
Selection Guide – HMI's

	Essential		Performance		
	 CT104	 CT107	 CPT104N-E	 CPT107-E	 CPT110N-E
Size	4,3"	7"	4,3"	7"	10,1"
Resolution	480 x 272	800 x 480	480 x 272	800 x 480	1024 x 600
Brightness	400 cd/m²	300 cd/m²	400 cd/m²	400 cd/m²	350 cd/m²
Processor	A8 - 600 MHz	A8 - 600 MHz	A8 - 600 MHz	A8 - 600 MHz	A8 – GHz
Storage memory	128 MByte	128 MByte	128 MByte	128 MByte	4 GByte
RAM memory	128 MByte	128 MByte	128 MByte	128 MByte	1 GByte
USB	Host USB 2.0	Host USB 2.0	Host USB 2.0	Host USB 2.0	Host USB 2.0
Ethernet	1 RJ45,10/ 100Mbit/s	1 RJ45,10/ 100Mbit/s	1 RJ45,10/ 100Mbit/s	1 RJ45,10/ 100Mbit/s	2 RJ45,10/ 100Mbit/s
RS 232	COM 1	COM 1	COM 1	COM 1	COM 1 / COM 3
RS 485	COM 1 / COM 3	COM 2	COM 1	COM 1	COM 2 / COM 3
CAN	N/A	N/A	N/A	N/A	N/A

CROUZET Touch Soft

CROUZET TOUCH SOFT
NEW UPGRADE!

Get the newest version of **Crouzet Touch Soft** for free and play around with our most intuitive and well designed user interface yet



IMAGINE AND CONCEIVE YOUR PROJECT IN AN EASY WAY

- Manage all your HMI project from Crouzet Touch Utility Manager
- A wide range of tools to help you develop the perfect project
- Dedicated communication drivers for em4 and Millenium 3 allowng simple addressing and label management
- Import existing MTP HMI programmes into the new Crouzet Touch Soft
- It's available in english, french, italian, german, spanish



KEY FEATURES

FUNCTION BAR
› With simple icons

ORGANISE YOUR PROJECT
› Tree and display all object names

CUSTOMISE YOUR APPLICATION
› Create your own library and import pictures



ENHANCED SECURITY
› By creating access levels for users

CREATE AND DESIGN
› Main window makes it easy to create any functional object

LABEL TAG
› Allows use of up to 8 different languages

ASSOCIATED FEATURES

EMAIL & CSV
Send e-mails with datalog files (csv) from a data sampling and when an event is triggered

RECIPE IMPORT / EXPORT
Creating and managing recipes is much easier using the «recipe view» object and system registers available in Crouzet Touch software

ENHANCED SECURITY
Enhanced security mode to manage users and classes easily with dedicated system pages

COMBO BUTTON
Execute multiple commands with one button

EASY DIAGNOSER
Analysing and diagnosing communication between HMI and PLC

EASY SIMULATOR
Allows online / offline simulation of your HMI application

PASS THROUGH
Allows connection of the PLC to the HMI allowing debugging of the system

VNC
Allows network connection to the HMI via VNC client on PC or mobile phone

Selection Guide – HMI's

Crouzet's HMI's

Crouzet HMI's are perfectly suited to be used with the whole range of Crouzet's Automation Controllers, thanks to the several ways of communication, and the pre-configured communication drivers that simplify the configuration.

HMI Features

- Easy to use graphic software pre-configured communication drivers
- Many Options: 4.3", 7" and 10", Essential and Performance versions
- Several ways of communication: Ethernet, Modbus, SLin/SLout

PERFORMANCE

Size	Type	Supply	Resolution	ROM	RAM		Communication	CAN Bus	Designation	Part Number
4 inch HMI	**Touch Screen** HMI only	24 VDC	480x272	128 Mbyte	128 Mbyte		• 1 x Port Ethernet • 1 x Port COM1 RS232 • 1 x Port COM2 RS485	-	CTP104N-E	88 970 554N
4 inch Kits	**Cable Kit** HMI + Cable for Controller Millenium3								CTP104N-E Cable Kit	88 970 553
	Starter Kit (+Logic Controller M3) HMI + Controller Millenium3 XD10R + Cable								CTP104N-E Starter Kit	88 970 555
	Starter Kit (+Logic Controller MEVO) HMI + Controller Millenium EVO XDP24-E + Cable								CTP104N-E Starter Kit	88 970 558
7 inch HMI	**Touch Screen** HMI Only	24 VDC	800x480	128 Mbyte	128 Mbyte		• 1 x Port Ethernet • 1 x Port COM1 RS232 • 1 x Port COM2 RS485	-	CTP107-E	88 970 564
7 inch Kits	**Cable Kit** HMI + Cable for Controller Millenium3								CTP107-E Cable Kit	88 970 563
	Starter Kit (+Logic Controller M3) HMI + Controller Millenium3 XD26R + Cable								CTP107-E Starter Kit	88 970 566
	Starter Kit (+Logic Controller MEVO) HMI + Controller Millenium EVO XDP24-E + Cable								CTP107-E Kit	88 970 568
	Starter Kit (+Nano-PLC em4) HMI + Controller em4 Ethernet + Cable								CTP107-E Starter Kit	88 970 567
10.1 inch HMI	**Touch Screen** HMI Only	24 VDC	1024x600	4 Gbyte	1 Gbyte		• 2 x Ports Ethernet • 1 x Port COM1 RS232 • 1 x Port COM2 RS485 • 1 x Port COM3 RS232 or RS485	-	CTP110N -E	88 970 584
10.1 inch Kits	**Cable Kit** HMI + Cable for Controller Millenium3								CTP110N-E Cable Kit	88 970 573
	Starter Kit (+Nano-PLC em4) HMI + Controller em4 Ethernet + Cable								CTP110N -E Kit	88 970 577

ESSENTIAL

Size	Type	Supply	Resolution	ROM	RAM		Communication	CAN Bus	Designation	Part Number
4 inch HMI	**Touch Screen** HMI only	24 VDC	480x272	128 Mbyte	128 Mbyte		• 1 x Port COM1 RS232 or RS485 • 1 x Port COM3 RS485 • 1 x Port Ethernet	-	CT104	88 970 524
4 inch Kit	**Cable Kit** HMI + Cable for Controller Millenium3								CT104 Cable Kit	88 970 523
7 inch HMI	**Touch Screen** HMI only	24 VDC	800x480	128 Mbyte	128 Mbyte		• 1 x Port COM1 RS232 or RS485 • 1 x Port COM3 RS485	-	CT107	88 970 534
7 inch Kit	**Cable Kit** HMI + Cable for Controller Millenium3								CT107 Cable Kit	88 970 533

Selection Guide – HMI's

Connect an HMI with the controller: **Cables and Expansions/Interfaces Needed**

ACCESSORIES FOR CONNECTION VIA **MODBUS (RTU)**

HMI's		Cable		Controller Expansion/Interface	
4 inch HMI	PERFORMANCE – CTP104N-E		**Modbus Cable** 88 980 171		**Modbus Interface** 88 980 122 or 88 980 123
	PERFORMANCE – CTP104N-E				
	PERFORMANCE – CTP104N-E				
	PERFORMANCE – CTP104N-E		**M3 Modbus Cable** 88 970 503		**Modbus Expansion XN06** 88 972 250
7 inch & 10 inch HMI's	PERFORMANCE – CTP107-E CTP110N-E		**Modbus Cable** 88 980 172		**Modbus Interface** 88 980 122 or 88 980 123
	PERFORMANCE – CTP107-E CTP110N-E				
	PERFORMANCE – CTP107-E CTP110N-E				
	PERFORMANCE – CTP107-E CTP110N-E		**M3 Modbus Cable** 88 970 504		**Modbus Expansion XN06** 88 972 250
4 inch & 7 inch HMI's	ESSENTIAL – CT104 CT107				
	ESSENTIAL – CT104 CT107		**Modbus Cable** 88 980 171		**Modbus Interface** 88 980 122 or 88 980 123
	ESSENTIAL – CT104 CT107				
	ESSENTIAL – CT104 CT107		**M3 Modbus Cable** 88 970 503		**Modbus Expansion XN06** 88 972 250

ACCESSORIES FOR CONNECTION VIA **ETHERNET (TCP/IP)**

Cable		Controller Expansion/Interface	
	✗		**Not Possible** (Telecontroller em4 Alert Without Ethernet Communication)
	**Ethernet cable** 88 970 508	✓	**No Interface needed** (Direct Connection to Controller)
			**Ethernet Expansion XN05** 88 970 270
	✗		**Not Possible** (Telecontroller em4 Alert Without Ethernet Communication)
	**Ethernet cable** 88 970 508	✓	**No Interface needed** (Direct Connection to Controller)
			**Ethernet Expansion XN05** 88 970 270
	✗		**Not Possible** (Telecontroller em4 Alert Without Ethernet Communication)
	**Ethernet cable** 88 970 508	✓	**No Interface needed** (Direct Connection to Controller)
			**Ethernet Expansion XN05** 88 970 270

CONTROLLERS

	**+ Telecontroller** em4 Alert
	**+ Nano-PLC** em4
	**+ Communicating Logic Controller** Millenium EVO
	**+ Logic Controller** Millenium3
	**+ Telecontroller** em4 Alert
	**+ Nano-PLC** em4
	**+ Communicating Logic Controller** Millenium EVO
	**+ Logic Controller** Millenium3
	**+ Telecontroller** em4 Alert
	**+ Nano-PLC** em4
	**+ Communicating Logic Controller** Millenium EVO
	**+ Logic Controller** Millenium3

CROUZET

COMPLEMENTARY PRODUCTS

- *Power Supplies*
- *Temperature Sensors*
- *Signal Converters*
- *Faceplates*



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Selection Guide – Complementary Pr oducts

Crouzet's Complementary Products

Crouzet offers complementary products such as a high-performance range of power supplies, signal converters, temperature sensors and probes, many adapted especially for use with Crouzet Automation Controllers and Timers

Features

- Designed for a wide range of industrial and building applications
- Many Options: Power supplies, signal converters, temperature sensors, temperature probes
- Adapted to be used with other Crouzet products

POWER SUPPLIES

Compact offer of 12 and 24 VDC DIN-Rail Modular & Industrial Power Supplies with high efficiency (up to 90%)

Type	Output Power	Output Voltage	Output Current	Width	Mounting	Input Voltage	Output	Adjustable Output	Part Number
 Modular AC to DC	10 W	24 VDC	0.42 A	18 mm	DIN Rail	100-240 VAC	1	No	89 451 001
	30 W		1.25 A	36 mm			1	Yes 24-28 VDC	89 451 003
	60 W		2.5 A	54 mm			2		89 451 006
	100 W		4.2 A	72 mm			2		89 451 010
NEW  Industrial AC to DC	60 W	12 VDC	5 A	43 mm	DIN Rail	90 VAC ➞ 264 VAC	1	12 – 14 VDC	89 452 061
	96 W		8 A						89 452 121
	216 W		18 A	50 mm					89 452 241
NEW  Industrial AC to DC	60 W	24 VDC	2.5 A	43 mm	DIN Rail	90 VAC ➞ 264 VAC	1	24 – 28 VDC	89 452 062
	120W		5 A						89 452 122
	240 W		10 A	50 mm					89 452 242
	480 W		20 A	60 mm					89 452 482

TEMPERATURE & SIGNAL CONVERTERS

Temperature & Signal Converters designed for simple & direct connection to Crouzet's Automation Controllers

Type	Range	Input	Output	Part Number
 **Temperature** to Voltage	-20 ➞+150 °C	Pt1000 3-wire	0-10 VAC	88 950 150
	-40 ➞+40 °C	Pt100 3-wire		88 950 151
	0 ➞+100 °C			88 950 152
	0 ➞+250 °C			88 950 153
	0 ➞+300 °C	Thermocouple J		88 950 154
	0 ➞+600 °C	Thermocouple K		88 950 155
 **Current** to Voltage	4 x 0-20 mA		4 x 0-10 VAC	88 950 108

FACEPLATES

ed for Crouzet's Automation Controllers

Type	Compatibility	Size	Part Number
 IP40 Protection	10-12 I/Os Controllers	110 x 108 mm	88 970 809
 IP67 Protection	10-12 I/Os Controllers	91 x 97.7 mm	89 750 160
	24-26 I/Os Controllers	162 x 97.7 mm	89 750 161
	24-26 I/Os Controllers + Expansions	257.4 x 97.7 mm	89 750 162

TEMPERATURE SENSORS

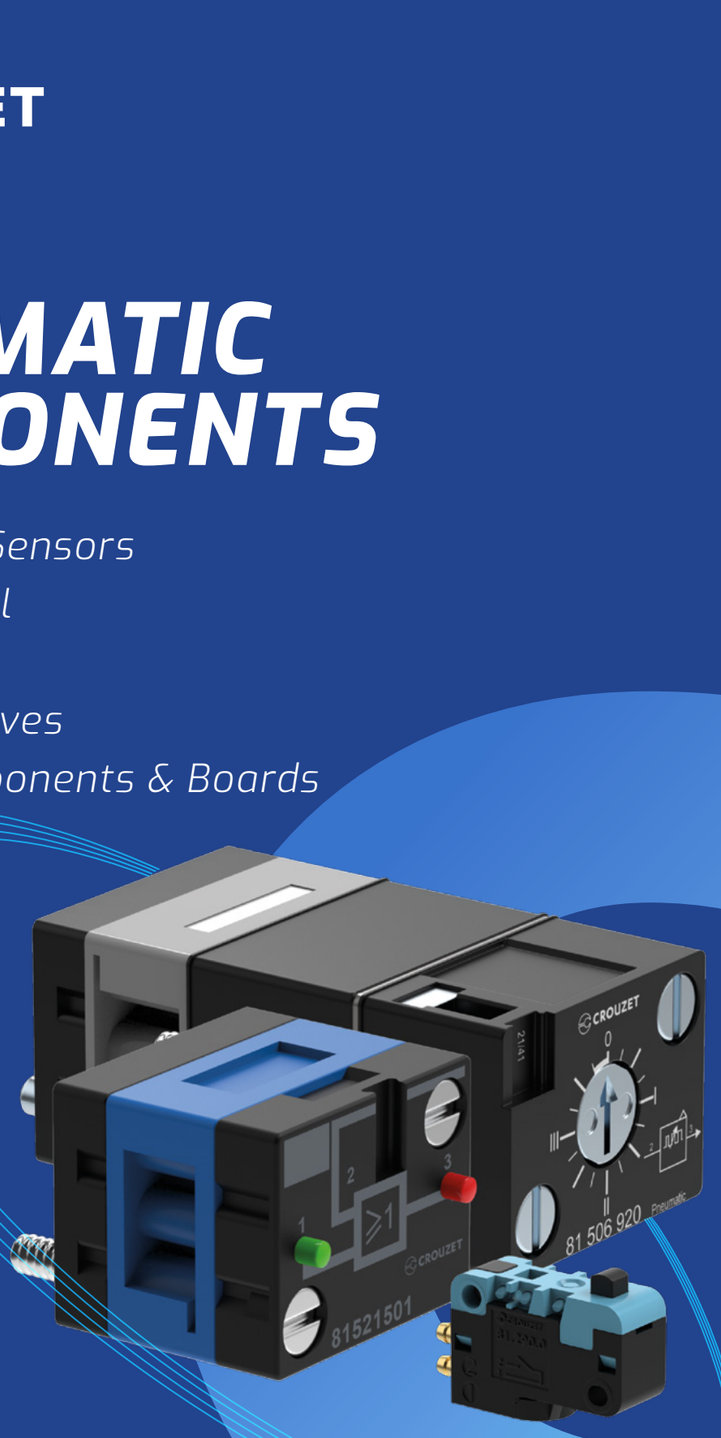
Probes designed for simple & direct connection to Crouzet's Automation Controllers

Type	Range	Power Supply	Output	Part Number
 Air Sensor	-10°C +40°C	24 VDC	0 ➞ 10 V / 4-20mA	89 750 190
 Duct Probe	- 10°C +60°C			89 750 191
 External Probe	-10°C + 40°C			89 750 192
 Remote/ Submersible	-10°C + 110°C			89 750 193
 NTC1 (A5 Probe)	-25 ➞ +85 °C	-	10 k Ω @ 25 °C	89 750 180
 NTC2 (PVC Probe)	-25 ➞ +85 °C			89 750 174
NTC2 (POM Probe)	-20 ➞ +105 °C			89 750 185
 NTC2 (Stainless Steel Probe)	-35 ➞ +120 °C			89 750 182
 NTC3 (Silicone Probe)	0 ➞ +180 °C		100 k Ω @ 25 °C	89 750 186

CROUZET

PNEUMATIC COMPONENTS

- *Switches & Sensors*
- *Logic Control*
- *Indicators*
- *Solenoid Valves*
- *Circuit Components & Boards*



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Selection Guide – Pneumatic Switche s & Sensors

Crouzet's Pneumatic Components

For more than 60 years now, Crouzet has offered a wide range of pneumatic products for simple automation systems using compressed air, without a source of electricity. Suitable for numerous applications, especially in explosive environments (ATEX).

Pneumatic Components Features

- Suitable for medical equipment, railway applications, packaging machines, industrial machines, etc.
- Many Options: Manually operated switches, logic components, solenoides valves, air pressure sensors...
- DesignLab for tailor-made pneumatic boards, 60+ years of Engineering expertise at your service

AIR PRESSURE/VACUUM SENSORS (WITH PNEUMATIC OUTPUT)

Type	Output	Adjustment Range	Hysteresis	Accuracy	Flow at 4 bar	Orifice Diameter	Mounting	Standard P/N	ATEX Compliant P/N
 Pressure Detection	Positive	50 → 500 mb	320 mb @ 2 → 8 b	4% @ 2 → 8 b	170 Nl/min	2.5 mm	Sub-base Mount	81 505 140	81 505 141
		0.1 → 2.5 b						81 505 150	-
		2 → 8 b						81 505 160	81 505 164
	Negative	50 → 500 mb		4% @ 2 → 8 b				81 502 140	81 502 141
		0.1 → 2.5 b						81 502 150	-
		2 → 8 b						81 502 160	-
Vacuum Detection	Positive	-0.1 → -0.9 b	80 mb	-	170 Nl/min	-		81 505 110	81 505 111
	Negative							81 502 110	-

AIR PRESSURE/VACUUM SENSORS (WITH ELECTRICAL OUTPUT)

Type	Output	Adjustment Range	Hysteresis	Protection	Connection	Mounting	Contact Form	Standard P/N	ATEX Compliant P/N
 Pressure Detection	5A @ 230 V	2 → 8 bar	1 bar @ 6 bar	IP20	Push-in connection Ø 4 mm for semi-rigid tubing	DIN Rail Mount	Form C	81 513 502	-
 Pressure Detection				IP 54		Sub-base Mount		81 513 516	-
 Pressure Detection				IP 54	1/8 Inch BSP (British Standard Pipe Thread Size)	Panel Mount (via 2 x M4 Screws)		81 513 533	-
 Pressure Detection		1.4 +- 0.5 bar	-	IP 54	Push-in connection Ø 4 mm for semi-rigid tubing	Sub-base Mount	Form Z	81 509 080	-
 Pressure Detection (With manual override)	5A @ 230 V	2 → 8 bar	1 bar @ 6 bar	IP20	Push-in connection Ø 4 mm for semi-rigid tubing	DIN Rail Mount	Form C	81 513 552	81 513 530
 Pressure Detection (With manual override)				IP 54		Sub-base Mount		81 513 510	-
 Pressure Detection (With manual override)		1.4 +- 0.5 bar	-	IP 54			Form Z	81 509 085	-
Low Pressure Detection	5A @ 230 V	0.3 → 1.2 bar	Max. 200 mb	IP20	Push-in connection Ø 4 mm for semi-rigid tubing	DIN Rail Mount	Form C	81 513 501	-

Type	Output	Adjustment Range	Hysteresis	Protection		Connection	Mounting	Contact Form	Standard P/N	ATEX Compliant P/N
 Vacuum Detection	5A @ 230 V	-0.3 → -0.8 bar	Max. 250 mb	IP20		Push-in connection Ø 4 mm for semi-rigid tubing	DIN Rail Mount	Form C	81 513 522	-
		-0.3 → -0.9 bar	Max. 250 mb	IP 54			Sub-base Mount		81 513 527	-
		-0.3 → -0.8 bar	Max. 250 mb	IP 54		1/8 Inch BSP (British Standard Pipe Thread Size)	Panel Mount (via 2 x M4 Screws)		81 513 523	-

MOUNTING BASES FOR AIR PRESSURE/VACUUM SENSORS

Type	Mounting	Connection	Note		Standard P/N	ATEX Compliant P/N
 Sub-base	DIN Rail Mount	Rotable Push-in Connection	Base that allows to connect several products next to each other		81 532 102	81 532 109
	DIN Rail Mount		Base for standalone use of one product only		81 532 104	81 532 111
 Sub-base	Shaft Mount (Ø 8 mm) via clip	Rear Connection	Base for the use of up to two products		81 531 001	81 531 008
 Sub-base	Panel Mount via 2 x M4 screw	Rear Connection	Base for standalone use of one product only		81 532 001	81 532 009

PNEUMATIC PROXIMITY SENSORS

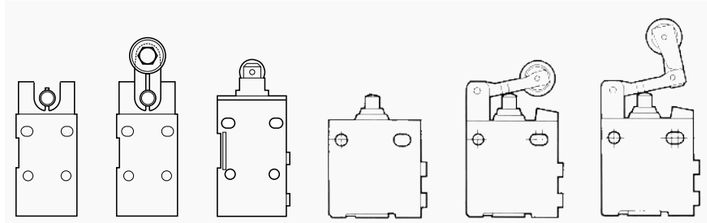
Type	Proximity Detection Distance	Operating Pressure	Output Pressure	Consumption at operating pressure 0.5 b		Consumption at operating pressure 2.5 b	Connection	Standard P/N	ATEX Compliant P/N
 Passage Sensor	18 mm	0.5 → 2.5 bar	5 mbar	70 Nl/h		2200 Nl/h	Push-in connection Ø 4 mm for barb connection Ø 2.7 x 4 mm	81 372 201	-
 Passage Sensor	100 mm	0.5 → 2.5 bar	5 mbar	100 Nl/h		700 Nl/h		81 372 401	-

PNEUMATIC MICROSWITCHES

Type	Contact	Actuator	Activation Force at 4 bar	Operating Pressure		Flow at 4 bar	Orifice Diameter	Connection	Standard P/N	ATEX Compliant P/N
 V3 Type Pneumatic Switch	Normally Open	Pin Plunger	< 0,5 N	3 → 8 bar		100 Nl/min	2 mm	Push-in connection Ø 4 mm for barb connection Ø 2.7 x 4mm	81 290 501	81 290 506
	Normally Closed								81 290 001	81 290 006

PNEUMATIC **LIMIT SWITCHES**

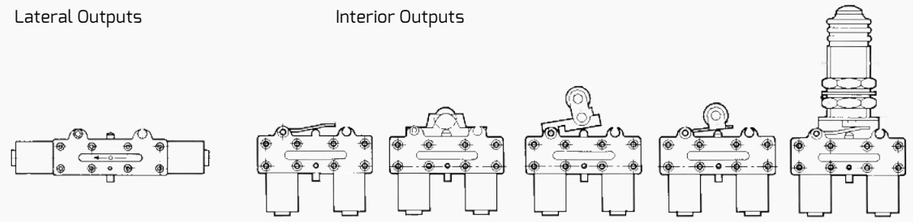
Vertical Style



Side Rotary | *Side Rotary Roller* | *Top Roller Plunger* | *Top Pin Plunger* | *Top Roller Lever* | *Top One-way Roller Lever*

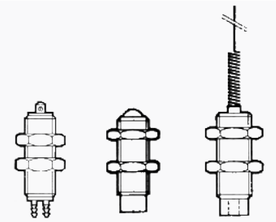
Horizontal Style

Lateral Outputs | Interior Outputs



Top Pin Plunger | *Straight Lever* | *Top Ball Bearing Plunger* | *Top One-way Roller Lever* | *Top Roller Lever* | *Top Threaded Barrel Pin Plunger*

Threaded Barrel-Style



Pin Plunger | *Ball bearing Plunger* | *Cat Whisker Lever*

PNEUMATIC LIMIT SWITCHES - VERTICAL STYLE

Type	Actuator	Contact	Connection	Operating Pressure	Flow at 6 bar	Orifice Diameter	Activation Force at 6 bar	Standard P/N	ATEX Compliant P/N
Standard Size Limit Switch	Top Roller Plunger	Normally Closed	Push-in connection Ø 4 mm for semi-rigid tubing	0.1 → 8 bar	200 Nm³/h	3 mm	2.5 daN	81 922 401	-
	Side Rotary							81 922 010	-
	Side Rotary		1/8 Inch BSP (British Standard Pipe Thread Size)					81 922 210	-
	Side Rotary Roller							81 922 205	-
Compact Size Limit Switch	Top Pin Plunger	Normally Closed	Push-in connection Ø 4 mm for semi-rigid tubing					81 921 501	-
Compact Size Limit Switch	Top Roller Lever (Plastic)	Normally Open	Push-in connection Ø 6 mm for semi-rigid tubing		200 Nl/min	2.7 mm	18 N	81 921 901	-
		Normally Closed						81 921 701	-
		Normally Open						81 921 911	-
		Normally Closed	Push-in connection Ø 6 mm for barb connection Ø 2.7 x 4 mm					81 921 719	-
			Push-in connection for semi-rigid tubing - M5 Pneumatic Silencer					81 921 806	-
Compact Size Limit Switch	Top Roller Lever (Metal)	Normally Open	Push-in connection Ø 4 mm for semi-rigid tubing	0.1 → 8 bar	200 Nl/min	2.7 mm	18 N	81 921 912	-
		Normally Closed	Push-in connection Ø 4 mm for semi-rigid tubing					81 921 702	-
			Push-in connection Ø 4 mm for barb connection Ø 2.7 x 4 mm					81 921 714	-
		Normally Open	Push-in connection Ø 6 mm for semi-rigid tubing					81 921 902	-
		Normally Closed	Push-in connection Ø 6 mm for barb connection Ø 2.7 x 4 mm					81 921 717	-
Compact Size Limit Switch	Top One-way Roller Lever	Normally Closed	Push-in connection Ø 4 mm for semi-rigid tubing	0.1 → 8 bar	200 Nl/min	2.7 mm	18 N	81 921 707	-
	Top Threaded Barrel Pin Plunger							81 921 505	-

PNEUMATIC LIMIT SWITCHES - HORIZONTAL STYLE

Type	Actuator	Contact	Connection	Operating Pressure		Flow at 6 bar	Orifice Diameter	Activation Force at 6 bar	Standard P/N	ATEX Compliant P/N
 **Miniature Limit Switch** Lateral Outputs	Top Pin Plunger	Normally Open	Push-in connection Ø 4 mm for semi-rigid tubing	2 → 8 bar		200 Nl/min	2.7 mm	15 N	81 280 010	-
		Normally Closed							81 280 510	-
 **Miniature Limit Switch** Interior Outputs	Top Pin Plunger	Normally Open	Push-in connection Ø 4 mm for semi-rigid tubing	2 → 8 bar		200 Nl/min	2.7 mm	15 N	81 281 010	-
		Normally Closed							81 281 510	-
	Top Ball Bearing Plunger	Normally Closed							81 281 504	-
	Top Threaded Barrel Pin Plunger	Normally Closed							81 737 501	-
	Top Short Lever	Normally Closed							81 281 502	-
	Top Roller Lever	Normally Closed							81 281 509	-
	Top One-way Roller Lever	Normally Closed							81 281 508	-

PNEUMATIC LIMIT SWITCHES - THREADED BARREL STYLE

Type	Actuator	Contact	Connection	Operating Pressure		Flow at 6 bar	Orifice Diameter	Activation Force at 6 bar	Standard P/N	ATEX Compliant P/N
 **Standard Version**	Pin Plunger	Normally Closed	Push-in connection Ø 4 mm for barb connection Ø 2.7 x 4mm	0.1 → 8 bar		130 Nm^3/h	2 mm	16 N	81 923 001	-
 **Low-force Version** (To be used with output modules)	Ball Bearing Plunger	Via Output Module	Push-in connection Ø 4 mm for semi-rigid tubing	Via Output Module		Via Output Module	Via Output Module	0.8 N	81 512 201	-
	Cat Whisker Lever							0.025 N	81 512 401	-

OUTPUT MODULES FOR THREADED BARREL STYLE LIMIT SWITCHES

Type	Actuator	Contact	Mounting	Operating Pressure		Flow at 6 bar	Orifice Diameter	Activation Force at 6 bar	Standard P/N	ATEX Compliant P/N
 **Positive** Output Module	Low-force threaded barrel style limit switches	Normally Open	Sub-base Mount	2 → 8 bar		170 Nl/min	2.7 mm	-	81 502 435	-
Negative Output Module		Normally Closed							81 505 435	-

MANUALLY OPERATED PNEUMATIC SWITCHES

Type	Actuator	Contact	Connection	Color	Standard P/N	ATEX Compliant P/N
 **Toggle Switch**	Toggle with automatic return (3 Positions)	Normally Closed	Push-in connection Ø 4 mm for semi-rigid tubing	Black	81 715 511	-
				Red	81 715 512	-
	Toggle with manual return (3 Positions)			Black	81 716 511	-
				Red	81 716 512	-
 **Push Button**	Single Push Button	Normally Open	Push-in connection Ø 4 mm for semi-rigid tubing	Black	81 735 011	-
		Normally Closed		Black	81 735 511	-
				Red	81 735 512	-
	Double Push Button			Black/Red	81 733 511	-

MANUALLY OPERATED PNEUMATIC SWITCHES **- TO BE ASSEMBLED**



1. *Head*
2. *Contact Block Valve*
3. *Mounting Adaptor*

1 HEADS

Type	Actuator	Size	Color	Standard P/N	ATEX Compliant P/N
 **Flush Push** Button Head	Single Push Button	Ø 22 mm	Black	24 678 127	-
			Green	24 678 128	-
			Red	24 678 129	-
 **Emergency Stop Push** Button Head	Single Push Button	Ø 22 mm	Red	24 678 173	-
	Single Push Button		Black	24 678 172	-
	Single Push & Turn Button		Red	24 678 171	-
 **Selector Switch** Head	Short Handle (2 Positions)	Ø 22 mm	Black	24 678 174	-
	Long Handle (2 Positions)			24 678 175	-
	Short Handle (3 Positions)		Black	24 678 176	-
	Short Handle with spring return (3 Positions)			24 678 178	-

2 CONTACT BLOCK VALVES

Type	Actuator	Contact	Connection	Operating Pressure	Flow at 4 bar	Orifice Diameter	Control Force	Standard P/N	ATEX Compliant P/N
 **Contact block valve** - 3 Outputs / 2 Positions (3/2)	-	Normally Closed	Push-in connection Ø 4 mm for semi-rigid tubing	0 → 10 bar	90 Nl/min	2 mm	12.6 N	89 543 501	-
		Normally Open						89 543 101	
	-	Normally Closed	1/8 Inch BSP (British Standard Pipe Thread Size)					89 543 701	
		Normally Open						89 543 201	

Type	Actuator	Contact	Connection	Operating Pressure			Flow at 4 bar	Orifice Diameter	Control Force	Standard P/N	ATEX Compliant P/N
 **Kit - Contact block valve + mounting adaptor -** 3 Outputs / 2 Positions (3/2)	-	Normally Closed	Push-in connection Ø 4 mm for semi-rigid tubing	0 → 10 bar			90 Nl/min	2 mm	12.6 N	89 543 105	-
		Normally Open								89 543 005	-
		Normally Closed + Normally Open								89 543 305	-
		Normally Closed + Normally Closed								89 543 205	-

3 MOUNTING ADAPTORS

Type										Standard P/N	ATEX Compliant P/N
 Mounting adaptor	-	-	-	-			-	-	-	24 679 702	-

SAFETY-START MODULES

Type	Actuator	Standard	Mounting	Connection			Flow at 4 bar	Orifice Diameter	Control Force	Standard P/N	ATEX Compliant P/N
Safety Start (Logic Block)	-	Type III A	Sub-base Mount	-			2 → 8 bar	0.2 s	2.5 N	81 580 101	-
		Type III B	-	Push-in connection Ø 4 mm for semi-rigid tubing						81 580 202	-
 **Safety Start** (Complete Two-Hand Module)	Double button	Type III A	-	Push-in connection Ø 4 mm for semi-rigid tubing						81 580 504	-
 **Safety Start** (Complete Two-Hand Module)		Type III B								81 580 503	-

MOUNTING BASE FOR SAFETY START MODULES (LOGIC BLOCK)

Type	Mounting	Connection	Note						Standard P/N	ATEX Compliant P/N
 Sub-base	Panel Mount (via 2 x M4 Screws)	Rear Connection	Base for standalone use of one product only						81 532 001	81 532 009

Selection Guide – Pneumatic Logic Control

TIMERS (TIMING ELEMENTS)

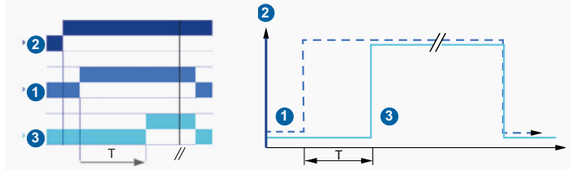
Type	Timing	Flow at 6 bar	Orifice Diameter	Operating Pressure	Mounting	Optional Set-up Knob	Standard P/N	ATEX Compliant P/N
 **Positive** Output (ON-delay)	Fixed: 0.4 s	170 Nl/min	2.7 mm	2 → 8 bar	Sub-base Mount	-	81 503 540	81 503 543
	Adjustable: 0.1 → 15 s					79 451 698	81 503 710	81 503 728
	Adjustable: 0.1 → 30 s					79 451 903	81 503 720	81 503 729
	Adjustable: 0.1 → 60 s					-	81 503 725	81 503 731
 **Negative** Output	Adjustable: 0.1 → 15 s	170 Nl/min	2.7 mm	2 → 8 bar	Sub-base Mount	79 451 698	81 506 710	-
	Adjustable: 0.1 → 30 s					79 451 903	81 506 720	-
	Adjustable: 0.1 → 60 s					-	81 506 725	-
 **Impulse** Generator	Fixed: 0.4 s	170 Nl/min	2.7 mm	2 → 8 bar	Sub-base Mount	-	81 507 540	81 507 543
	Adjustable: 0.1 → 30 s					79 451 904	81 507 720	81 507 724
 **Frequency** Generator	Adjustable: 0.02 → 8 Hz	170 Nl/min	2.7 mm	2 → 8 bar	Sub-base Mount	79 451 905	81 506 940	81 506 945
	Adjustable: 0.02 → 14 Hz					-	81 506 920	-

MOUNTING BASES FOR TIMERS

Type	Mounting	Connection	Note	Standard P/N	ATEX Compliant P/N
 Sub-base	DIN Rail Mount	Rotable Push-in Connection	Base that allows to connect several products next to each other	81 532 102	81 532 109
	DIN Rail Mount		Base for standalone use of one product only	81 532 104	81 532 111
 Sub-base	Shaft Mount (Ø 8 mm) via clip	Rear Connection	Base for the use of up to two products	81 531 001	81 531 008
 Sub-base	Panel Mount via 2 x M4 screw	Rear Connection	Base for standalone use of one product only	81 532 001	81 532 009

TIMING FUNCTIONS

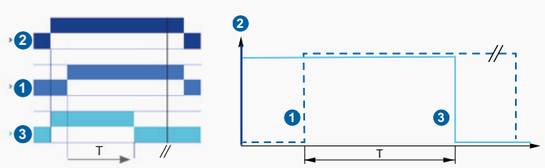
Positive Output (ON-delay)



1. *Control input*
2. *Air supply*
3. *Air Output*

T: Timing
// Supply off

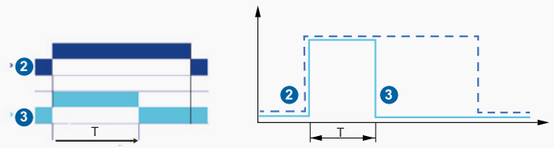
Negative Output



1. *Control input*
2. *Air supply*
3. *Air Output*

T: Timing
// Supply off

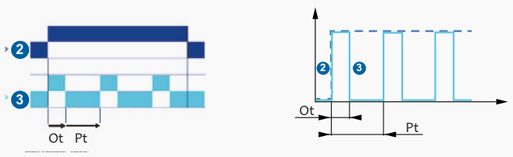
Impulse Generator



2. *Air supply*
3. *Air Output*

T: Timing

Frequency Generator



2. *Air supply*
3. *Air Output*

TOt: Operating time
Pt: Period time

LOGIC GATES (LOGIC ELEMENTS)

Logic Function	Logic Expression	Mounting	Flow at 6 bar	Orifice Diameter	Operating Pressure	Color	Standard P/N	ATEX Compliant P/N
OR	S = a + b	Sub-base Mount	170 Nl/min	2.7 mm	2 → 8 bar	Blue	81 521 501	81 521 508
		Push-in connection Ø 4 mm for semi-rigid tubing		2.7 mm			81 540 001	81 540 015
		Push-in connection Ø 6 mm for semi-rigid tubing	200 Nl/min	4 mm			81 540 005	-
AND	S = a . b	Sub-base Mount	170 Nl/min	2.7 mm	2 → 8 bar	Green	81 522 501	81 522 505
		Push-in connection Ø 4 mm for semi-rigid tubing	150 Nl/min				81 541 001	81 541 015
		Push-in connection Ø 6 mm for semi-rigid tubing	200 Nl/min	4 mm			81 541 005	81 541 017
YES (Buffer)	S = a	Sub-base Mount	170 Nl/min	2.7 mm	2 → 8 bar	Yellow	81 501 025	81 501 031
YES (Buffer) with threshold	S = a					Orange	81 503 025	81 503 028
NOT (Inverter)	S = ā	Sub-base Mount	170 Nl/min	2.7 mm	2 → 8 bar	Light Gray	81 504 025	81 504 035
NOT (Inverter) with threshold	S = ā					Dark Gray	81 506 025	81 506 027

MOUNTING BASES FOR LOGIC GATES

Type	Mounting	Connection	Note	Standard P/N	ATEX Compliant P/N
 Sub-base	DIN Rail Mount	Rotable Push-in Connection	Base that allows to connect several products next to each other	81 532 102	81 532 109
	DIN Rail Mount		Base for standalone use of one product only	81 532 104	81 532 111
 Sub-base	Shaft Mount (Ø 8 mm) via clip	Rear Connection	Base for the use of up to two products	81 531 001	81 531 008
 Sub-base	Panel Mount via 2 x M4 screw	Rear Connection	Base for standalone use of one product only	81 532 001	81 532 009

MEMORY MODULES (MEMORY ELEMENTS)

Type	Flow at 6 bar	Orifice Diameter	Min. Pilot Pressure	Operating Pressure	Mounting	Color	Standard P/N	ATEX Compliant P/N
 Bistable	200 Nl/min	2.7 mm	2.5 bar	2 → 8 bar	Sub-base Mount	Black	81 523 201	81 523 205
Bistable with Manual Override							81 523 601	81 523 608

MOUNTING BASES FOR MEMORY MODULES

Type	Mounting	Connection	Note	Standard P/N	ATEX Compliant P/N
 Sub-base	DIN Rail Mount	Rotable Push-in Connection	Base for standalone use of one product only	81 542 002	81 542 004

SEQUENCERS (SEQUENTIAL ELEMENTS)

Type	Version	Flow at 6 bar	Orifice Diameter	Operating Pressure	Mounting	Mechanical life	Standard P/N	ATEX Compliant P/N
 Basic Sequencer Modules	Maintained reset	150 Nl/min	2.7 mm	2 → 8 bar	Sub-base Mount	5 x 10*6 at 6 bar	81 550 001	81 550 013
	Auto reset						81 550 201	81 550 213
Shift Register Sequencer Module	Maintained reset						81 550 401	81 550 403
	Auto reset						81 550 601	81 550 603

MOUNTING BASES FOR SEQUENCERS

Type	Mounting	Notes	Standard P/N	ATEX Compliant P/N
 Sub-base	DIN Rail Mount	Pressure Indicators & Rotable Push-in Connection	81 551 101	81 551 104
	Shaft Mount (Ø 8 mm) via clip	-	81 551 001	-
 End-base	DIN Rail Mount	Pressure Indicators & Rotable Push-in Connection	81 552 101	81 552 105
	Shaft Mount (Ø 8 mm) via clip	Pressure Indicators	81 552 001	-
 Diversion Base Module	DIN Rail Mount	Pressure Indicators & Rotable Push-in Connection	81 552 601	81 552 605

Selection Guide – Pneumatic Indicato rs

PNEUMATIC PILOT LIGHTS

Type	Color	Connection	Panel Cut	Size	Operating Pressure	Standard P/N	ATEX Compliant P/N
 Pilot Lights	Red	Push-in connection Ø 4 mm for semi-rigid tubing	22.5 mm	Ø 30 mm	2 → 8 bar	84 150 201	84 150 214
	Green					84 150 202	84 150 215
	Yellow					84 150 203	84 150 216
	Blue					84 150 204	-

PNEUMATIC COUNTERS

Type	Digits	Size	Pressure to break	Pressure to make	Supply Pressure	Mounting	Standard P/N	ATEX Compliant P/N
 Totalizer (+ Reset)	4 Digits	24 x 48 mm	< 0.3 bar	> 1.4 bar	2 → 8 bar	Screw Mount	99 766 002	-

Selection Guide – Solenoid Valves

SOLENOID VALVES

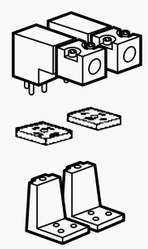
Type	Contact	Flow at 6 bar	Orifice Diameter	Operating Pressure	Switching time	Size	Supply Voltage	Mounting	Standard P/N	ATEX Compliant P/N
 3 Outputs / 2 Positions (3/2)	NC	200 Nl/min	3 mm	3 → 8 b	20 ms	17.5 mm	24 VDC	DIN Rail Mount	81 513 103	-
4 Outputs / 2 Positions (4/2 Monostable)	-					35 mm			81 513 203	-
 3 Outputs / 2 Positions (3/2)	NC	170 Nl/min	2.7 mm	2 → 8 b	-	With manual override by impulse	24 VDC	Sub-base Mount	81 519 732	-
							24 VAC		81 519 774	-
							110 VAC		81 519 776	-
							220-230 VAC		81 519 777	-

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MOUNTING BASES FOR SOLENOID VALVES

Type	Mounting	Connection	Note	Standard P/N	ATEX Compliant P/N
 Sub-base	DIN Rail Mount	Rotable Push-in Connection	Base that allows to connect several products next to each other	81 532 102	81 532 109
	DIN Rail Mount		Base for standalone use of one product only	81 532 104	81 532 111
 Sub-base	Shaft Mount (Ø 8 mm) via clip	Rear Connection	Base for the use of up to two products	81 531 001	81 531 008
 Sub-base	Panel Mount via 2 x M4 screw	Rear Connection	Base for standalone use of one product only	81 532 001	81 532 009

SOLENOID VALVES - TO BE ASSEMBLED

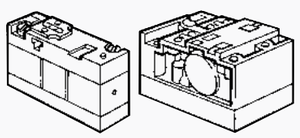


1 *Control solenoid*

Optional LED seal

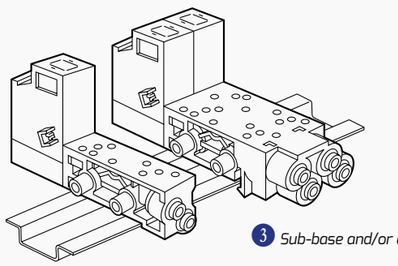
Optional LED

+



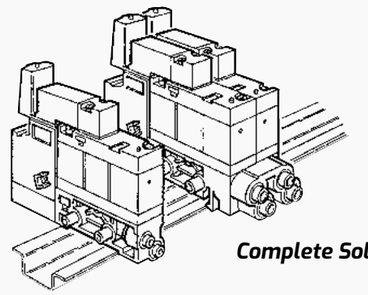
2 *Valve Module*

+



3 *Sub-base and/or end-base*

=



Complete Solenoid valve

1 CONTROL SOLENOID

Type	Contact	Flow at 6 bar	Orifice Diameter	Mounting	Connection	Switching time	Override	Supply Voltage	Standard P/N	ATEX Compliant P/N
 3 Outputs / 2 Positions (3/2)	Normally Closed	25 Nl/min	0.8 mm	Valve Module Mount	Plug-In	5 - 15 ms	-	24 VDC	81 519 032	81 519 035
							By impulse		81 519 332	81 519 335
					Wire		By impulse		81 519 340	81 519 037
					Plug-In		Manual (maintained)		81 519 632	81 519 635
 3 Outputs / 2 Positions (3/2)	Normally Closed	12 Nl/min	0.5 mm	Valve Module Mount	Plug-In	5 - 15 ms	-	24 VAC - 50/60 Hz	81 519 080	-
							By impulse		81 519 380	-
							Manual (latching 1/4 turn)		81 519 680	-
							By impulse	48 VAC - 50/60 Hz	81 519 381	-
							By impulse	110 VAC - 50/60 Hz	81 519 378	-
							Manual (latching 1/4 turn)		81 519 678	-
							By impulse	220/230 VAC - 50/60 Hz	81 519 379	-
							Manual (latching 1/4 turn)		81 519 679	-

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OPTIONAL LEDS & SEAL

Type	Supply Voltage	Mounting	Standard P/N	ATEX Compliant P/N
 LEDs (Visual indicators with anti-surge)	24 V - 50/60 Hz	Between control solenoid & valve module	81 513 052	-
	110 V - 50/60 Hz		81 513 058	-
	230 V - 50/60 Hz		81 513 059	-
 LED Seal	12 → 24 V AC/DC		81 513 064	-

2 VALVE MODULES

Type	Operation	Contact	Flow at 6 bar	Orifice Diameter	Switching time	Size	Operating Pressure	Mounting	Standard P/N	ATEX Compliant P/N
 3 outputs / 2 Positions - (3/2)	Monostable	NC	200 Nl/min	3 mm	15 ms	17.5 mm	3 → 8 b	Sub-base Mount	81 513 100	81 513 196
		NO							81 513 600	-
4 outputs / 2 Positions - (4/2)	Monostable	-							81 513 200	81 513 234
 4 outputs / 2 Positions - (4/2)	Monostable	-	300 Nl/min	4 mm	50 ms	35 mm	3 → 8 b	Sub-base Mount	81 516 100	-
	Bistable	-							81 516 200	81 516 208

3 SUB-BASES & END-BASES

Type	Mounting	Connection	Size	Standard P/N	ATEX Compliant P/N
 Sub-base	DIN Rail Mount	Push-in connection Ø 4mm for semi-rigid tubing	17.5 mm	81 513 060	81 513 075
			35 mm	81 517 101	-
		Push-in connection Ø 6mm for semi-rigid tubing	17.5 mm	81 513 065	81 513 076
			35 mm	81 517 201	81 517 206
 End-Bases		Push-in connection Ø 6mm for semi-rigid tubing	2 x 17.5 mm	81 513 011	81 513 040
 Intermediary supply module			17.5 mm	81 513 001	81 513 039

GENERAL ACCESSORIES

Type	Note	Mounting	Standard P/N	ATEX Compliant P/N
 Pneumatic Silencer	Filter to avoid dust	Push-in connection Ø 6 mm for semi-rigid tubing	81 537 001	-
 Connector	For control solenoid		81 516 082	-
 Pneumatic Pilot	Without manual override	Push-in connection Ø 4 mm for semi-rigid tubing	81 516 081	81 516 093
 Blanking Plate	For spare positions		81 516 085	-

Selection Guide – Pneumatic Circuit Components & Boards

AIR FLOW CONTROL COMPONENTS

Type	Flow	Orifice Diameter	Operating Pressure	Mounting	Connection	Standard P/N	ATEX Compliant P/N
 **Air Flow** Regulator	Free flow 30 NL/min	0 → 0.5mm	1 → 8 bar	Sub-base Mount	-	81 525 101	-
	Free flow 200 NL/min	0 → 1.7mm				81 526 001	-
 **Air Flow** Regulator	Flow at 4 bar 0.18 → 0.30 Nm3/h	Ø 0.3mm	1 → 8 bar	-	Push-in connection Ø 4 mm for semi-rigid tubing	81 529 003	81 529 013
	Flow at 4 bar 0.35 → 0.5 Nm3/h	Ø 0.4mm				81 529 004	81 529 014
	Flow at 4 bar 0.58 → 0.77 Nm3/h	Ø 0.5mm				81 529 005	-
	Flow at 4 bar 0.80 → 1.06 Nm3/h	Ø 0.6mm				81 529 006	-
	Flow at 4 bar 1.10 → 1.39 Nm3/h	Ø 0.7mm				81 529 007	81 529 017
	Flow at 4 bar 1.45 → 1.65 Nm3/h	Ø 0.8mm				81 529 008	81 529 018
	Flow at 4 bar 2.30 → 2.80 Nm3/h	Ø 1mm				81 529 010	-
	Flow at 4 bar 0.08 → 0.12 Nm3/h	Ø 0.25mm				81 529 025	-
 **Air Pressure** Regulator	Flow at 6 bar 200 NL/min	-	2 → 8 bar (Adjustable output pressure 0.1 → 8 bar)	Sub-base Mount	-	81 527 001	-
 **Non-return valve** (Check-Valve)	Flow at 6 bar 200 NL/min	-	2 → 8 bar	-	Push-in connection Ø 4 mm for semi-rigid tubing	81 529 901	-

AIR CAPACITOR

Type	Timing	Connection	Standard P/N	ATEX Compliant P/N
 **Air Capacitor**	10 → 60s	Push-in connection Ø 4 mm for semi-rigid tubing	79 452 808	-

AIR SIGNAL AMPLIFIERS

Type	Function	Engaging Pressure	Orifice Diameter	Consumption at 4bar	Acceptable Overload for 1h	Mounting	Standard P/N	ATEX Compliant P/N
 Simple Amplifiers	Positive	10 → 20 mb	2.5 mm	5 Nl/min	800 mb	Sub-base Mount	81 502 230	81 502 238
	Negative						81 505 230	81 505 231

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VACUUM GENERATORS

Type	Mounting	Connection	Operating Pressure	Standard P/N	ATEX Compliant P/N
 Vacuum Generators	Sub-base Mount	-	2 → 8 bar	81 535 301	-
 Vacuum Generators	-	Push-in connection Ø 4 mm for semi-rigid tubing		81 545 001	81 545 012
	-	Push-in connection Ø 6 mm for semi-rigid tubing		81 545 005	-

MOUNTING BASES FOR PNEUMATIC CIRCUIT COMPONENTS

Type	Mounting	Connection	Note	Standard P/N	ATEX Compliant P/N
 Sub-base	DIN Rail Mount	Rotable Push-in Connection	Base that allows to connect several products next to each other	81 532 102	81 532 109
	DIN Rail Mount		Base for standalone use of one product only	81 532 104	81 532 111
 Sub-base	Shaft Mount (Ø 8 mm) via clip	Rear Connection	Base for the use of up to two products	81 531 001	81 531 008
 Sub-base	Panel Mount via 2 x M4 screw	Rear Connection	Base for standalone use of one product only	81 532 001	81 532 009

SUPPLY BLOCK

Type	Mounting	Connection	Standard P/N	ATEX Compliant P/N
 Supply Block 13 Ouputs	Shaft Mount (Ø 8 mm) via clip	Rear Connection	81 536 801	-

PNEUMATIC BOARDS

Contact our DesignLAB for tailor-made pneumatic boards



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