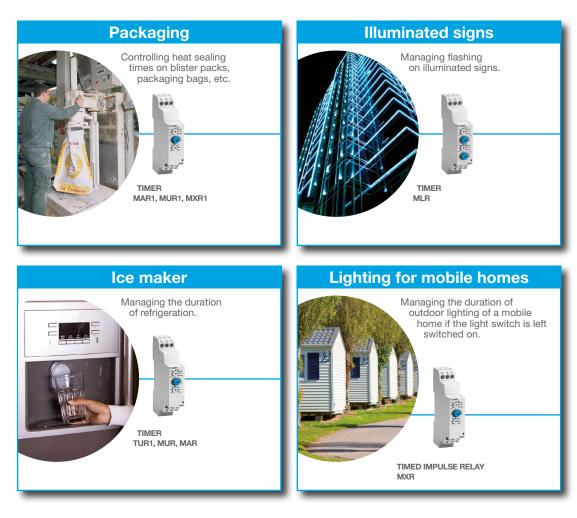
APPLICATIONS WHERE ARE CHRONOS TIMERS FOUND?

In electrical cabinets associated with other automation functions for the following markets:

- Food industry
- Industrial automation systems
- Lighting

- Building equipment
- HVAC
- Small or large industrial machines



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CHRONOS 2 TIMERS

TIME MANAGEMENT



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THE BASICS

Crouzet.

a brand of Custom Sensors & Technologies, is a specialist in electromechanical, electronic technology, and software engineering. Based on Crouzet's 50 years of experience in time management, as well as experience in physical and mechanical values, we offer a range of automation components that includes: logic controllers, timers, control relays, counters, tachometers, machine safety equipment, and temperature controllers.

These products are particularly suited for use in water treatment, waste processing, renewable energy, HVAC, access control, building equipment, agriculture and industrial automation markets.

This document gives an overview of the Chronos 2 DIN rail mounted timers.

These timers are available in 3 casings:

- DIN rail modular casing (width: 17.5 mm)
- DIN rail industrial casing (width: 22.5 mm)
- Plug-in industrial casing (width: 35 mm).



FEATURES OF THE CHRONOS 2 TIMERS

- Available in **mono-** or **multifunction** versions, to meet the specific needs of each application.
- A timing range of up to 100 hrs to cope with the correct operation of equipment. prolonged processing operations.
- A range of power supplies from 12 to 240 V in one unit for optimised stocks.
- Recognised quality and reliability ensures

SELECTION GUIDE CHRONOS 2 DIN RAIL MOUNTED TIMERS

DIN rail modular casings

Casing width (mm)	Connections	Functions	Type of output	Output(s)	Timing	Supply	New part number	Old part number	Туре
17.5		A / At / B / C / H / Ht Di / D / Ac / Bw	Relay	1 x 8 A changeover	0.1 s ⇔ 100 h	24 V / 24 ⇔ 240 V ~	88 827 105	88 826 105	MUR1
		A / At					88 827 115	88 826 115	MAR1
	Screw terminals	В					88 827 125	88 826 125	MBR1
		H / Ht	5				88 827 135 88 827 145	88 826 135 88 826 145	MCR1 MHR1
						12 V \sim	88 827 150	88 826 150	MLR4
		L/Li				24 V / 24 ⇒ 240 V ~	88 827 155	88 826 155	MLR1
17.5	Screw terminals	A / At / B / C / H / Ht Di / D / Ac / Bw	Relay	1 x 8 A changeover	0.1 s ⇔ 100 h	12 V \sim	88 827 100	88 826 100	MUR4
						12 ⇒ 240 V ≂	88 827 103	88 826 103	MUR3
	Spring terminals						88 827 503	88 826 503	MURca
	Screw terminals	Ad / Ah / N / O / P Pt / TL / Tt / W				24 V \pm / 24 \Rightarrow 240 V \sim	88 827 185	88 826 185	MXR1
17.5		A / At / B / C / H / Ht Di / D / Ac / Bw	Solid state	0.7 A	'A 0.1 s ⇔ 100 h	24 \Rightarrow 240 V \sim	88 827 004	88 826 004	MUS2
	Screw terminals	A				24 ⇔ 240 V ≂	88 827 014	88 826 014	MAS5
		H / Ht				$24 \Rightarrow 240 \vee \sim$	88 827 044	88 826 044	MHS2
		L / Li				27 - 240 V 0	88 827 054	88 826 054	MLS2

Naming of Chronos 2 timers

Dimensions in mm (inches)

DIN rail modular casings (17.5 mm)

M T	U T	ø/2 •	R •	1
Dimensions	Functions	Output(s)	Type of output	Supply
M: 17.5 mm	A: A function	ø: 1 Output	R: Relay	1: 24 V / 24 ⇔ 240 V ∼
T: 22.5 mm	B: B function	2: 2 Outputs	S: Solid state	2: 24 ⇒ 240 V ~
R: 22.5 mm	C: C function			3: 12 ⇒ 240 V ≂
O: Plug-in 8 pins	H: H function			4: 12 V \eqsim
P: Plug-in 11 pins	L: L function			5: 24 ⇒ 240 V ≂
	Q: Q function			6: 230 ⇒ 440 V ~
	U: Multifunction (A-At-B-C-H-Ht-Di-D-Ac-Bw)			
	X: Multifunction (Ad-Ah-N-O-P-Pt-TL-Tt-W)			

17,5 (0.68)

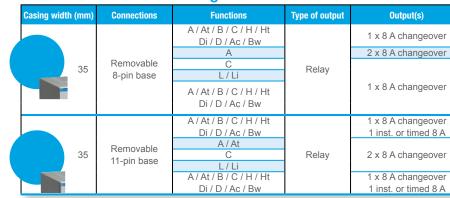
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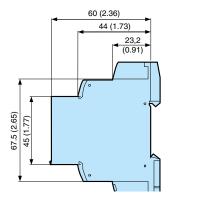
DIN rail industrial casings

Casing width (mm)	Connections	Functions	Type of output	Output(s)	Timing	Supply	Part number	Туре	
22.5	Screw terminals	A / At / B / C / H / Ht	Relay			24 V / 24 ⇔ 240 V ~	88 865 105	TUR1	
		Di / D / Ac / Bw			0.1 s ⇔ 100 h				
		A / At					88 865 115	TAR1	
		B					88 865 125	TBR1	
		С					88 865 135	TCR1	
		H / Ht					88 865 145	THR1	
		L / Li					88 865 155	TLR1	
		Q					88 865 175	TQR1	
		_					88 866 175	RQR1*	
		K		2 x 8 A changeover	0.1 s ⇒ 160 s		88 865 265	TK2R1	
	Screw terminals	A / At / B / C / H / Ht	Relay	1 x 8 A changeover	0.1 s ⇔ 100 h	12 V \sim	88 865 300	TU2R4	
-		Di / D / Ac / Bw		1 inst. or timed 8 A			88 866 300	RU2R4*	
		DI/D/AC/BW		1 x 8 A changeover			88 865 100	TUR4	
22.5		A / At		2 x 8 A changeover		24 V $=$ / 24 \Rightarrow 240 V \sim	88 865 215	TA2R1	
							88 866 215	RA2R1*	
5			A / At / B / C / H / Ht		1 x 8 A changeover		12 ⇒ 240 V ≂	88 865 103	TUR3
	Spring terminals	Di / D / Ac / Bw		T X 8 A Changeover		12 40 1/2	88 865 503	TURc3	
	Screw terminals	Ad / Ah / N / O / P		1 x 8 A changeover			88 865 385	TX2R1	
22.5					1 inst. or timed 8 A		24 V / 24 ⇒ 240 V ~	88 866 385	RX2R1*
		Pt / TL / Tt / W ew terminals Q Relay					88 865 185	TXR1	
			1 x 8 A changeover		230 ⇒ 440 V ~	88 865 176	TQR6		
			Relay	5	0.1 s ⇒ 100 h	230 ⇒ 440 V 10	88 866 176	RQR6*	
				12 ⇒ 240 V ≂	88 865 303	TU2R3			
			A / At / B / C / H / Ht		1 x 8 A changeover		12 ⇔ 240 V ∼	88 866 303	RU2R3*
			1 inst. or timed 8 A		24 V = 124 + 240 V =	88 865 305	TU2R1		
						24 V / 24 ⇒ 240 V ~	88 866 305	RU2R1*	

* Available in 2014. The new part number's casings are different from the existing casings. Find out more on the technical datasheets available on www.crouzet.com

Removable industrial casings





All Chronos 2 timers are CE, UL, cUL, CSA, GL certified

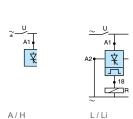


A-At / H-Ht / B / C / Di-D / Ac / BW / Ad - Ah - N - O - P -Pt - TL - Tt - W

Solid state relay

Connections

One changeover relay output



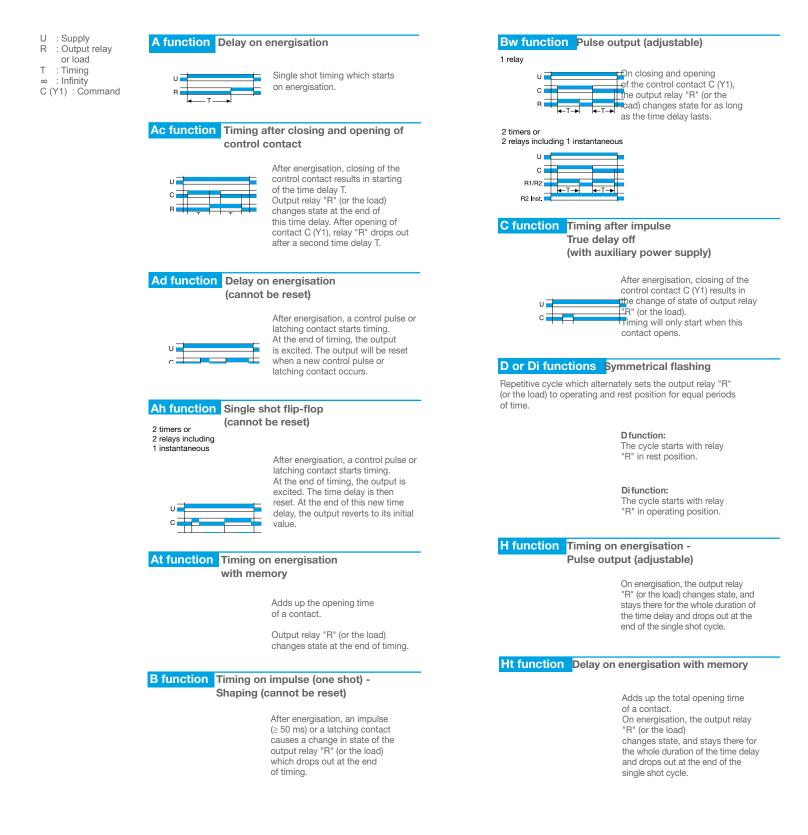
A-At / H-Ht / B / C / Di-D / Ac / BW / Ad - Ah - N - O - P -Pt - TL - Tt - W

Li - L

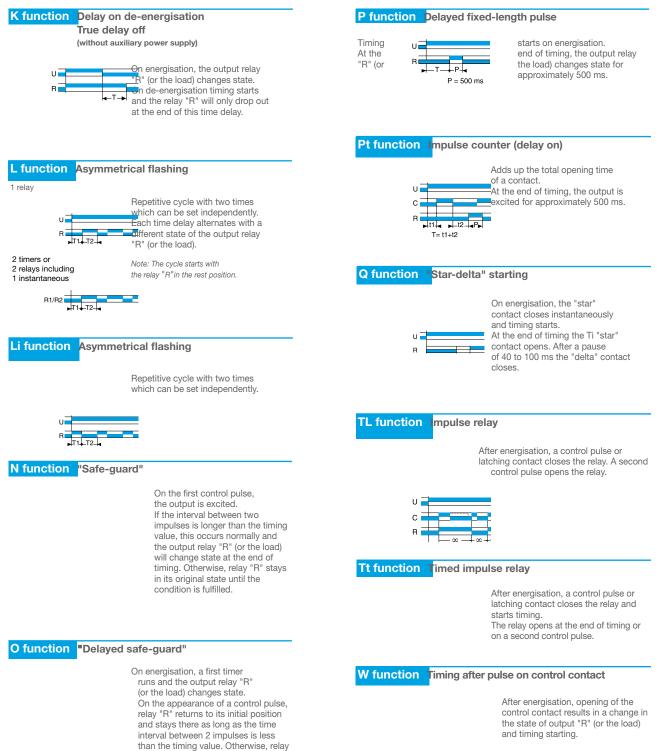
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FUNCTION DIAGRAMS GENERIC FUNCTIONS



	Timing	Supply	Part number	Туре	
			88 867 105	OUR1	
		24 V \pm / 24 \Rightarrow 240 V \sim	88 867 215	OA2R1	
	0.1s ⇒ 100 h		88 867 135	OCR1	
	0.15 4 100 11		88 867 155	OLR1	
		12 V \sim	88 867 100	OUR4	
		12 ⇒ 240 V ≂	88 867 103	OUR3	
	0.1s ⇔ 100 h		88 867 305	PU2R1	
		24 V / 24 ⇒ 240 V ~	88 867 415	PA2R1	
			88 867 435	PC2R1	
			88 867 455	PL2R1	
		12 V \sim	88 867 300	PU2R4	
		12 ⇔ 240 V ≂	88 867 303	PU2R3	



"R" will change state at the end of timing.