

TIMER RELAYS

- Analog
- Digital
- DIN Rail Mount
- Panel Mount





PRESENTS

THE NEXT INNOVATION INTO THE TIMERS MARKET



The New **YR-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

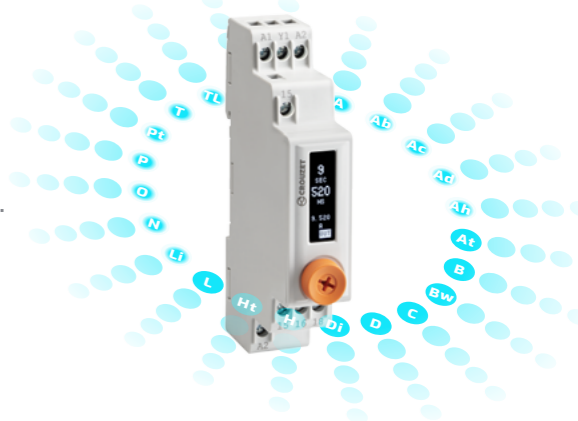
IT'S UNIVERSAL

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

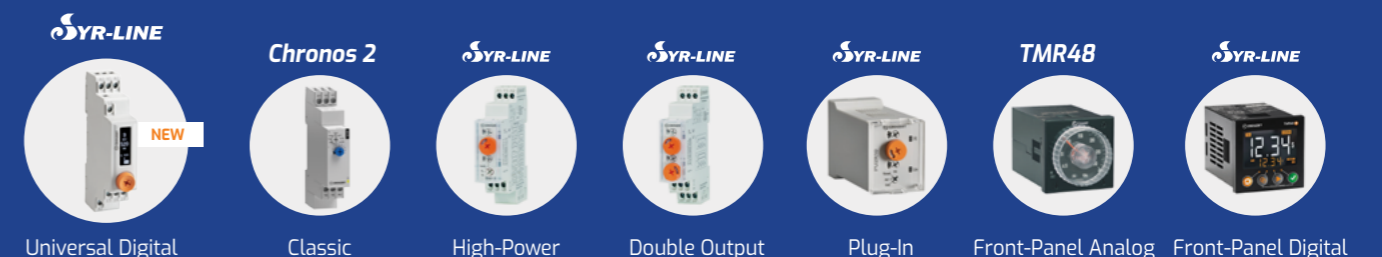
Program with or without power supply thanks to the integrated battery*

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



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.

DIN RAIL MOUNT

Type	Function	Time range	Output	Supply	
 Syr-Line Universal Digital	Super Multifunction Z*	0,1 s → 100 days	1 x 8 A (Changeover)	12-240 VAC/DC	
 Syr-Line High-Power	Multifunction M*+ Tt	0,1 s → 10 days	1 x 16 A (Changeover)	12-240 VAC/DC	
	A: ON-Delay L/Li: Repeat Cycle				
 Syr-Line Double Output	Multifunction M* + Instantaneous	0,1 s → 10 days	2 x 8 A (Changeover)	12-240 VAC/DC	
	A: ON-Delay L/Li: Repeat Cycle				
 Chronos 2 Classic	Multifunction U*	0,1 s → 100 h	1 x 8 A (Changeover)	12-240 VAC/DC	
	Multifunction U*			24 VDC / 24-240 VAC	
	Multifunction X*				
	A-At: ON-Delay/ Summation	0,1 s → 100 h	1 x 8 A (Changeover)	24 VDC / 24-240 VAC	
	B: Single Shot				
	C: Off-Delay				
	H/Ht: Interval + Memory				
	L/Li: Repeat Cycle	0,1 s → 100 h	1 x 0,7 A (Static)	24-240 VAC	
	Multifunction U*				
	H/Ht: Interval + Memory				
	L/Li: Repeat Cycle	0,1 s → 1 h	2 x 5 A (Open contact)	24 VDC / 24-240 VAC	
	A: ON-Delay				
	Q: Star-Delta	0,1 s → 100 h	2 x 8 A (Changeover)	12-240 VAC/DC	
Multifunction X*+W					
Multifunction X*	0,6 s → 160 s	2 x 8 A (Changeover)	24 VDC / 24-240 VAC		
K: True Off-Delay					

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)





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.

Special Characteristics	Width	Mounting	Designation	Part Number
Universal connections, Timing limits, Password protection, easy to use	17.5 mm	DIN Rail	DZ1R	DZ1R08MV1
Protective Cover	17.5 mm	DIN Rail	BM1R	BM1R16MV1
			BA1R	BA1R16MV1
			BL1R	BL1R16MV1
Protective Cover	17.5 mm	DIN Rail	BM2R	BM2R08MV1
			BA2R	BA2R08MV1
			BL2R	BL2R08MV1
-	17.5 mm	DIN Rail	MUR3	88 827 103
			MUR1	88 827 105
			MXR1	88 827 185
-	17.5 mm	DIN Rail	MAR1	88 827 115
			MBR1	88 827 125
			MCR1	88 827 135
			MHR1	88 827 145
			MLR1	88 827 155
Static Output	17.5 mm	DIN Rail	MU52	88 827 004
			MHS2	88 827 044
			MLS2	88 827 054
			MAS5	88 827 014
-	22.5 mm	DIN Rail	RQR1	88 827 175
			RX2R1	88 866 385 N
			RU2R3	88 866 303 N
			TK2R1	88 865 266

Selection Guide - Timers

PANEL MOUNT

Type	Function	Time range	Output	Supply
 Syr-Line Plug-in	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			
 Syr-Line TMR48D Digital Performance	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*		2 x 10 A (Changeover)	
	A: ON-Delay			
 Syr-Line TMR48D Digital Essential	Multifunction E*	0,001 s → 9999 h	1 x 5 A (Changeover)	24 VAC/DC
	Multifunction E*		100-240 VAC/DC	
 TMR48 Analog	A, B, C, W, G, Ac, Bw	0,02 s → 300 h	2 x 5 A (Changeover)	12-240 VDC / 24-240 VAC
	L/LI - G/Gi			
	A1, A2, H1, H2, Q1, Q2, D-Di			
	A: ON-Delay			


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)

PNEUMATIC & ATEX PNEUMATIC TIMERS

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

Special Characteristics	Width	Mounting	Designation	Part Number
Protective Cover	35 mm	11-Pin	PU2R	PU2R10MV1
			PA2R	PA2R10MV1
			PC2R	PC2R10MV1
			PL2R	PL2R10MV1
		8-Pin	OUIR	OUIR10MV1
			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
-	48 mm	11-Pin	TMR 48 U	88 886 016
			TMR 48 L	88 886 516
		8-Pin	TMR 48 X	88 886 116
			TMR 48 A	88 886 106

TIMERS' ACCESSORIES

Type	Compatibility	Description	Part Number
 Socket	• TMR48D • TM48 • 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

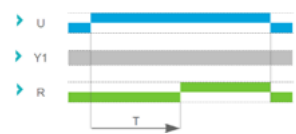
Selection Guide - Timing Functions

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



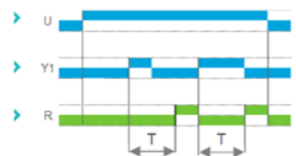
Ac Function

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



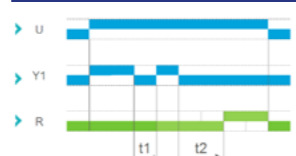
Ah Function

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



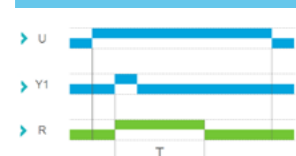
At Function

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



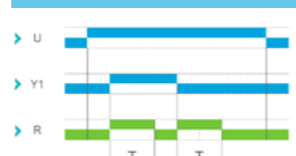
B Function

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



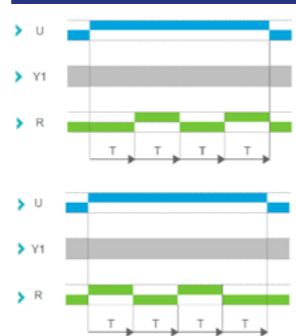
L/Li Function

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



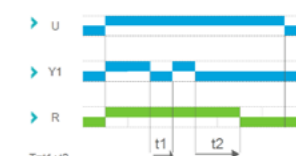
N Function

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



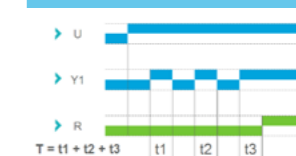
Pt Function

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