

## > Plug-In Timer 11 pins

- > Multifunction or monofunction
- Compact body for space saving
   Wide time range (from 0.5 seconds to 10 days delay)
- > Universal power supply (12-240 V~)
- > 1 or 2 relay outputs (SPDT / Changeover)
- > Protective cover
- > LED status indicator
- > 3-wire PNP sensor compatible
- > 11-pins connections



PU2R10MV1

Multifunctions U -

Monofunction Ad -Instantaneous

Othered

PA2R10MV1

Monofunction A, At



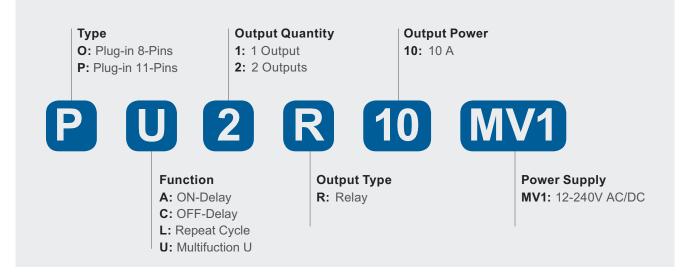
PC2R10MV1 Monofunction C



PL2R10MV1 Monofunction L, Li

Product selection				
Function	Output	Supply Voltage	Part Number	
Multifunction U: (A, At, B, C, H, Ht, D, Di, Ac, Bw) Ad - Instantaneous	2 relays	12 to 240 V~	PU2R10MV1	
A, At	2 relays	12 to 240 V≂	PA2R10MV1	
С	2 relays	12 to 240 V≂	PC2R10MV1	
L, Li	2 relays	12 to 240 V 😎	PL2R10MV1	

## PART NUMBERING SYSTEM



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## **Description:**

Syr-line, the new specialized range at Crouzet, aimed to satisfy the most unique requirements of your applications by innovating in design, engineering and development.

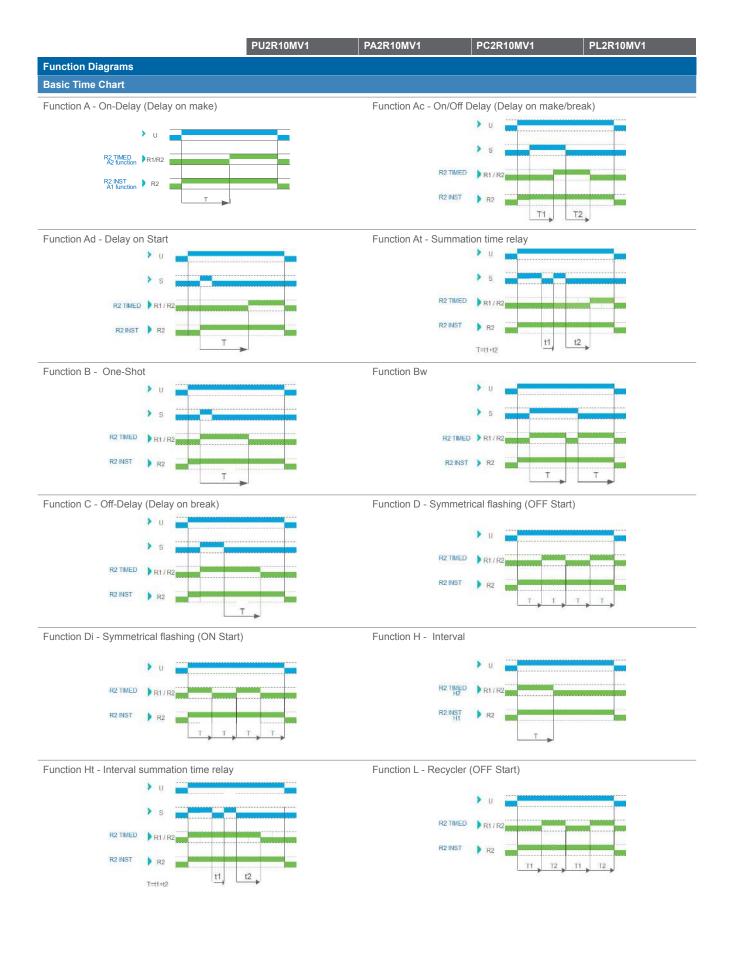
The Plug in Analog Timers, a new family of 11 timers with multifuction or monofunction, universal power supply, wide time range, with all the classic functions.

For more information about Crouzet's Syr-line range, please visit www.crouzet.com.

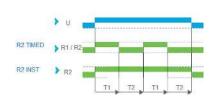


	PU2R10MV1	PA2R10MV1	PC2R10M\	/1 PL2R10MV1	
Power Supply					
Rated supply voltage Un	12 to 240 V≂				
Voltage supply tolerance	-15 %, +10 %				
AC supply voltage frequency	50 / 60 Hz ± 5%				
Galvanic isolation of supply / inputs	No				
Power consumption @ Un	Approx. 3 VA (V~) 1.5	W (V)			
Immunity to power micro cuts	10 ms				
Timing Control					
Specified time ranges (7) (IEC 1812-1)	0.510 s, 0.051 min,	0.510 min,	0.051 h, 0.510 h,	0.051 day, 0.510 days	
Minimum control pulse duration (IEC 1812-1)	40 ms 100 ms with load				
Recovery time (after by de-energisation) (IEC 1812-1)	120 ms				
Repeatability (IEC 1812-1)	≤±0.5 %				
Setting Accuracy (IEC 1812-1)	≤±10 %				
Temperature drift	≤±0.05 % / °C				
Voltage drift	$\leq \pm 0.2$ % / V				
Relay output					
Contact arrangement	2 CO (SPDT) (ChangeOver -Single Pole Double Throw-) R1: Follow timing function R2: Follow timing	2 CO (SPDT)	ChangeOver -Single F	Pole Double Throw-)	
	function / Instantenous				
Maximum switching voltage	250 V $\sim$ / 10 A resistive	/ 125 V <u></u> / 0.3 /	A resistive		
Switching current rate (resistive)	NO / NC: 10 A 250 V~	0			
	NO / NC: 5 A 250 V~/	5 A 30 V @ 60	)°C		
Minimum switching contact	10 mA / 5 V				
Maximum switching power (resistive)	2500 VA / 300 W				
Electrical life	10 <sup>5</sup> cycles min at 250 V	$\sim$ / 10 A resistive	e (NO only)		
Maximum rate (at max switching power)	360 cycles /hour				
Mechanical life	10 x 10 <sup>6</sup> cycles				
Rated impulse voltage Dielectric strength between coil / contacts (IEC 60664-1)	4 kV (1.2/50 μs) 2.5 kV / 1 min / 1 mA / 50 Hz				
Dielectric strength between open contacts	1 kV / 1 min / 1 mA / 50	Hz			
Rated Insulation voltage (IEC 60664-1)	250 V				
Insulation coordination (IEC 60664-1)		l: pollution deare	e 2: up to 2000 m abo	ve sea level	
Rated impulse voltage (IEC 60664-1)	Overvoltage category III; pollution degree 2; up to 2000 m above sea level 4 kV (1.2/50 µs)				
Clearance / Creepage distances (IEC 60664-1)	3 mm / 3.2 mm				
Dielectric strength (EN-61812-1)	2.5 kV / 1 min / 1 mA / 5	50 Hz			
Insulation Resistance (NFC 93 050)	> 500 MOhms / 250 V / 1 min				
General specifications					
Status indication (LED)	-		-	inuous ON when supplied inuous ON when the 2 relays are ON.	
Casing	35 mm				
Mounting	Mounting base-mounted	d on socket			
Housing material (UL94)	Enclosure plastic type V0				
Degree of protection (IEC 60529)	IP40				
Operating temperature (IEC 60068-2)	-20 °C to +60 °C				

	PU2R10MV1	PA2R10MV1	PC2R10MV1	PL2R10MV1
Storage temperature (IEC 60068-2)	-40 °C to +70 °C			
Humidity (IEC 60068-2-30)	93 % without conden	sation		
/ibration resistance (IEC 60068-2-6)	±0.15mm from 10 Hz	60 Hz 2 g from 60 H	z150 Hz	
Shock resistance (IEC60068-2-27)			gized) 5 gn - 11 ms; 3 X 6 a	axis (Output energized)
Drop to concrete floor (IEC 60068-2-32)	High: 0.75 m			
Veight	90 g			
	110 g with packaging			
tandards				
EE Directive: 2014/30/EU	EMC			
014/35/EU	Low voltage			
pprovals / Marking	CE			
	cULus Listed Industr	ial Control Equipment		
ecurity standard (IEC 60664-1)	Insulation coordination	n for equipment within	low-voltage systems	
onformity with environmental directives:	RoHS			
015/863/UE	Reach			
907/2006 012/19/UE	WEEE			
roduct standard	Specified time relays	for industrial use		
EC 61812-1 / UL 60947-4-1)	, ,	upment (NRNT- Indust	rial Control Switches)	
	1	ation Coordination for	,	
lectromagnetic compatibility:	Generic standards			
EC 61000-6-2	Immunity for industria	al environment		
EC 61000-6-3	Emission residential	environment		
EC 61000-6-4	Emission industrial e	nvironment		
nmunity to electrostatic discharges EC61000-4-2)	Level III Air ±8 KV / C	contact ±6 KV		
nmunity to radiated, radio-frequency,	Level III			
lectromagnetic field (IEC61000-4-3)	10 V/m (80 MHz to 1	GHz) 80 % AM (1 kHz	.)	
	3 V/m (1.4 to 2 GHz)			
	1 V/m (2 to 2.7 GHz)			
nmunity to rapid transient bursts (IEC 1000-4-4)		r/Th ns 5 KKz & 100 K		
,			h ns 5 KHz & 100 KHz	
nmunity to shock waves on power supply EC 61000-4-5)	Level III: line-to-earth	±2 kV / line-to-line ±	:1 kV	
nmunity to radiofrequency in common node (IEC 61000-4-6)	Level III: 10 Vrms (0.	15 to 80 MHz) 80 % AI	M (1 kHz)	
nmunity to voltage dips and breaks	0 % residual voltage	during 1 cycle (Crit. B)		
EC 61000-4-11)			2 cycles 60 Hz (Crit. C)	
	•	e / 25 cycles 50 Hz / 30	) cycles 60 Hz (Crit. C)	
	Short interruptions:			
0/20	-	-	00 cycles 60 Hz (Crit. C)	
C/DC main port emissions EC 61000-6-3 IEC 61000-6-4)	CISPR 16-2-1 (7.4.1)		() guasi pook E6 dB(u)()	46 dP(u)/) average
		dB(μV) – 56 dB(μV) dB(μV) quasi-peak, 4	/) quasi-peak, 56 dB(µV) – 6 dB(uV) average	46 dB(µV) average
		dB(µV) quasi-peak, 50		
	CISPR 14-1	de la deserve la construction		
	0.15 MHz – 30 MHz			
	CISPR 16-2-1 (7.4.1)	, CISPR 16-1-2 (4.3)		
		79 dB(µV) quasi-peak		
	0.5 MHz – 30 MHz, 7	3 dB(μV) quasi-peak,	60 dB(μV) average	
	CISPR 16-2-3			
EC 61000-6-3 IEC 61000-6-4)		30 dB(µV/m) Quasi-pe		
		z, 37 dB(µV/m) Quasi		abaia abambar
			i-peak at 3 m in a semi-ane -peak at 3 m in a semi-ane	
	230 WITZ - 1 000 MIT		pear at 5 111 in a Settin-dhe	

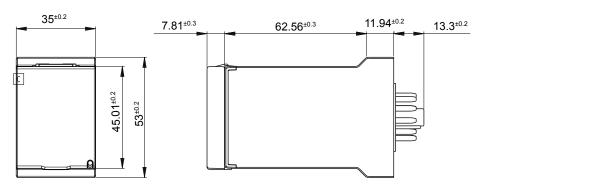






	PU2R10MV1	PA2R10MV1	PC2R10MV1	PL2R10MV1
Connections				
PU2R10MV1 - PA2R10MV1 - PC2R10MV1		PL2R10MV1		
$\begin{array}{c} & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & &$			$ \begin{array}{c}  & & \\  $	
	PU2R10MV1	PA2R10MV1	PC2R10MV1	PL2R10MV1

Outline dimensions (mm)



	PU2R10MV1	PA2R10MV1	PC2R10MV1	PL2R10MV1
Socket				

RECOMENDED SOCKET

11 Pins for DIN Rail or Panel Mount (P/N: 25 622 080)



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