

> 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

PA2R10MV1



PA2R10MV1 Monofunction A, At

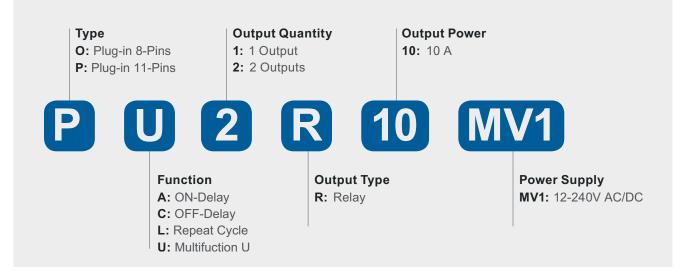




PL2R10MV1 Monofunction L, Li

Product selection				
Function	Output	Supply Voltage	Part Number	
Multifunction U: (A, At, B, C, H, Ht, D, Di, Ac, Bw)	2 relays	12 to 240 V~	PU2R10MV1	
Ad - Instantaneous				
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.



	PU2R10MV1	PA2R10MV1	PC2R10MV1	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, 0.05.	.1 h, 0.510 h, 0.051	1 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) (Chan	geOver -Single Pole Dou	ble Throw-)
	function / Instantenous			
Maximum switching voltage	250 V \sim / 10 A resistive	/ 125 V / 0.3 A resis	stive	
Switching current rate (resistive)	NO / NC: 10 A 250 V \sim	-		
	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	/ 40. A		
Electrical life	10 ⁵ cycles min at 250 V	\sim / 10 A resistive (NO	oniy)	
Maximum rate (at max switching power)	360 cycles /hour			
	10 x 10 ⁶ 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 / 5	60 Hz		
Dielectric strength between open contacts Insulation	1 kV / 1 min / 1 mA / 50	Hz		
Rated Insulation voltage (IEC 60664-1)	250 V			
Insulation coordination (IEC 60664-1)	Overvoltage category II	l; pollution degree 2; ι	p to 2000 m above sea le	evel
Rated impulse voltage (IEC 60664-1)	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 / 50 Hz			
Insulation Resistance (NFC 93 050)	> 500 MOhms / 250 V-	_ / 1 min		
General specifications				
Status indication (LED)			waiting Y1, continuous C antaneous), continuous O	ON when supplied IN when the 2 relays are ON.
Casing	35 mm			
Mounting	Mounting base-mounted	d on socket		
Housing material (UL94)	Enclosure plastic type \	/0		
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 conde	nsation		
Vibration resistance (IEC 60068-2-6)	±0.15mm from 10 Hz60 Hz 2 g from 60 Hz150 Hz			
Shock resistance (IEC60068-2-27)	10 gn - 11 ms; 3 X 6 axis (Output non-energized) 5 gn - 11 ms; 3 X 6 axis (Output energized)			
Drop to concrete floor (IEC 60068-2-32)	High: 0.75 m			
Weight	90 g 110 g with packaging	q		
Standards		<u> </u>		
CEE Directive: 2014/30/EU	EMC			
2014/35/EU	Low voltage			
Approvals / Marking	CE cULus Listed Indus	trial Control Equipment		
Security standard (IEC 60664-1)	Insulation coordinati	on for equipment within	low-voltage systems	
Conformity with environmental directives: 2015/863/UE 1907/2006 2012/19/UE	RoHS Reach WEEE			
Product standard (IEC 61812-1 / UL 60947-4-1)		s for industrial use quipment (NRNT- Indust lation Coordination for I		
Electromagnetic compatibility: IEC 61000-6-2 IEC 61000-6-3 IEC 61000-6-4	Generic standards Immunity for industri Emission residential Emission industrial e	environment		
Immunity to electrostatic discharges (IEC61000-4-2)	Level III Air ±8 KV /			
Immunity to radiated, radio-frequency, electromagnetic field (IEC61000-4-3)	Level III 10 V/m (80 MHz to ² 3 V/m (1.4 to 2 GHz 1 V/m (2 to 2.7 GHz	, , , , , , , , , , , , , , , , , , ,)	
Immunity to rapid transient bursts (IEC		[r/Th ns 5 KKz & 100 Kl	Ηz	
61000-4-4)	Capacitive coupling	clamp ± 2 KV 5/50 Tr/T	h ns 5 KHz & 100 KHz	
Immunity to shock waves on power supply (IEC 61000-4-5)	Level III: line-to-eart	h ±2 kV / line-to-line ±	1 kV	
Immunity to radiofrequency in common mode (IEC 61000-4-6)	Level III: 10 Vrms (0	.15 to 80 MHz) 80 % AM	Л (1 kHz)	
Immunity to voltage dips and breaks (IEC 61000-4-11)	40 % residual voltag 70 % residual voltag Short interruptions:	e during 1 cycle (Crit. B) je / 10 cycles 50 Hz / 12 je / 25 cycles 50 Hz / 30 e / 250 cycles 50 Hz / 30	cycles 60 Hz (Crit. C)	
AC/DC main port emissions (IEC 61000-6-3 IEC 61000-6-4)	CISPR 16-2-1 (7.4.1 0.15 MHz – 0.5 MHz 0.5 MHz – 5 MHz, 5 5 MHz – 30 MHz, 60 CISPR 14-1 0.15 MHz – 30 MHz CISPR 16-2-1 (7.4.1 0.15 MHz – 0.5 MHz	l), CISPR 16-1-2 (4.3) z, 66 dB(μV) – 56 dB(μ\ 6 dB(μV) quasi-peak, 4ι) dB(μV) quasi-peak, 50	/) quasi-peak, 56 dB(μV) – 5 dB(μV) average dB(μV) average , 66 dB(μV) average	46 dB(μV) average
Radiated emissions (IEC 61000-6-3 IEC 61000-6-4)	230 MHz – 1 000 M Or: 30 MHz – 230 M			

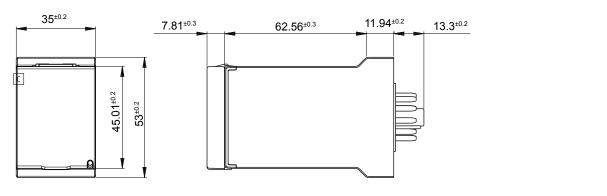






	PU2R10MV1	PA2R10MV1	PC2R10MV1	PL2R10MV1
Connections				
PU2R10MV1 - PA2R10MV1 - PC2R10MV1		PL2R10MV1		
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	PU2R10MV1	PA2R10MV1	PC2R10MV1	PL2R10MV1

Outline dimensions (mm)



	PU2R10MV1	PA2R10MV1	PC2R10MV1	PL2R10MV1
Socket				

RECOMENDED SOCKET

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



Warning:

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