> Plug-In Timer 11 pins

- > Multifunction or monofunction
- > Compact body for space saving
- > Wide time range (from 0.5 seconds to 10 days delay)
-) 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 -



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)	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 **Output Quantity Output Power**

O: Plug-in 8-Pins P: Plug-in 11-Pins

Type

1: 1 Output 2: 2 Outputs **10**: 10 A



Function

A: ON-Delay

C: OFF-Delay

L: Repeat Cycle

U: Multifuction U

Output Type

R: Relay

Power Supply

MV1: 12-240V AC/DC

You have a project? Contact us on www.crouzet.com

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

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

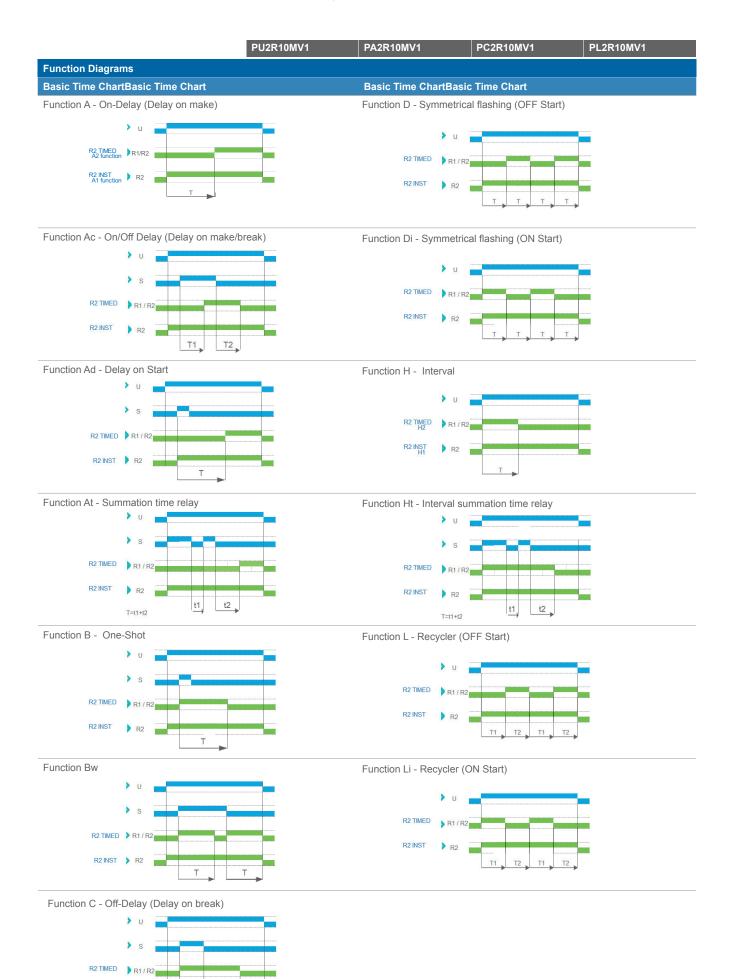


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	PU2R10MV1	PA2R10MV1	PC2R10MV1	PL2R10MV1
Power Supply				
Rated supply voltage Un	12 to 240 V≂			
Voltage supply tolerance	-15 %, +10 %			
AC supply voltage frequency	50 / 60 Hz ± 5%			
Galvanic isolation of supply / inputs	No			
Power consumption @ 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, 0.051	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	≤±0.2 % / V			
Relay output				
Contact arrangement	2 CO (SPDT) (ChangeOver -Single Pole Double Throw-) R1: Follow timing function R2: Follow timing function / Instantenous	2 CO (SPDT) (Chang	eOver -Single Pole Doubl	le Throw-)
Maximum switching voltage	250 V∼ / 10 A resistive	/ 125 V— / 0 3 A resisti	Ve	
Switching current rate (resistive)	NO / NC: 10 A 250 V ~ / 10 A 30 V @ 25 °C 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	105 cycles min at 250 V	√/ 10 A resistive (NO o	only)	
Maximum rate (at max switching power)	360 cycles /hour		,	
Mechanical life	10 x 10 ⁶ cycles			
Rated impulse voltage	4 kV (1.2/50 μs)			
Dielectric strength between coil / contacts (IEC 60664-1)	2.5 kV / 1 min / 1 mA / 5	0 Hz		
Dielectric strength between open contacts	1 kV / 1 min / 1 mA / 50	Hz		
Insulation				
Rated Insulation voltage (IEC 60664-1)	250 V			
Insulation coordination (IEC 60664-1)	Overvoltage category III; pollution degree 2; up to 2000 m above sea level			
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)	-		vaiting Y1, continuous ON taneous), continuous ON	I when supplied I when the 2 relays are ON
Casing	35 mm			
Mounting	Mounting base-mounted on socket			
Housing material (UL94)	Enclosure plastic type V	0		
Degree of protection (IEC 60529)	IP40			
Operating temperature (IEC 60068-2)	-20 °C to +60 °C			

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	PU2R10MV1 PA2R10MV1 PC2R10MV1 PL2R10MV1
Storage temperature (IEC 60068-2)	-40 °C to +70 °C
Humidity (IEC 60068-2-30)	93 % without condensation
/ibration 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)
Orop to concrete floor (IEC 60068-2-32)	High: 0.75 m
Veight	90 g 110 g with packaging
Standards	
CEE Directive: 2014/30/EU	EMC
2014/35/EU	Low voltage
Approvals / Marking	CE
	cULus Listed Industrial Control Equipment
Security standard (IEC 60664-1)	Insulation coordination for equipment within low-voltage systems
Conformity with environmental directives:	RoHS
2015/863/UE	Reach
907/2006 2012/19/UE	WEEE
Product standard	Specified time relays for industrial use
IEC 61812-1 / UL 60947-4-1)	Industrial Control Equipment (NRNT- Industrial Control Switches)
	Refer to UL840 Insulation Coordination for Electrical Equipment
Electromagnetic compatibility:	Generic standards
EC 61000-6-2	Immunity for industrial environment
EC 61000-6-3	Emission residential environment
EC 61000-6-4	Emission industrial environment
mmunity to electrostatic discharges IEC61000-4-2)	Level III Air ±8 KV / Contact ±6 KV
mmunity to radiated, radio-frequency,	Level III
electromagnetic field (IEC61000-4-3)	10 V/m (80 MHz to 1 GHz) 80 % AM (1 kHz)
	3 V/m (1.4 to 2 GHz) 80 % AM (1 KHz)
	1 V/m (2 to 2.7 GHz) 80 % AM (1 KHz)
mmunity to rapid transient bursts (IEC 31000-4-4)	direct ±4 kV 5/50 Tr/Th ns 5 KKz & 100 KHz
,	Capacitive coupling clamp ± 2 KV 5/50 Tr/Th ns 5 KHz & 100 KHz
mmunity to shock waves on power supply IEC 61000-4-5)	Level III: line-to-earth ±2 kV / line-to-line ±1 kV
mmunity to radiofrequency in common node (IEC 61000-4-6)	Level III: 10 Vrms (0.15 to 80 MHz) 80 % AM (1 kHz)
mmunity to voltage dips and breaks IEC 61000-4-11)	0 % residual voltage during 1 cycle (Crit. B)
	40 % residual voltage / 10 cycles 50 Hz / 12 cycles 60 Hz (Crit. C)
	70 % residual voltage / 25 cycles 50 Hz / 30 cycles 60 Hz (Crit. C) Short interruptions:
	0 % residual voltage / 250 cycles 50 Hz / 300 cycles 60 Hz (Crit. C)
AC/DC main port emissions	CISPR 16-2-1 (7.4.1), CISPR 16-1-2 (4.3)
IEC 61000-6-3 IEC 61000-6-4)	0.15 MHz – 0.5 MHz, 66 dB(μ V) – 56 dB(μ V) quasi-peak, 56 dB(μ V) – 46 dB(μ V) average
	0.5 MHz $-$ 5 MHz, 56 dB(μ V) quasi-peak, 46 dB(μ V) average
	5 MHz – 30 MHz, 60 dB(μV) quasi-peak, 50 dB(μV) average
	CISPR 14-1
	0.15 MHz – 30 MHz
	CISPR 16-2-1 (7.4.1), CISPR 16-1-2 (4.3)
	0.15 MHz – 0.5 MHz, 79 dB(μV) quasi-peak, 66 dB(μV) average
	0.5 MHz – 30 MHz, 73 dB(μV) quasi-peak, 60 dB(μV) average
Radiated emissions	CISPR 16-2-3
IEC 61000-6-3 IEC 61000-6-4)	30 MHz – 230 MHz, 30 dB(μV/m) Quasi-peak at 10 m
	30 MHz – 230 MHz, 30 dB(μV/m) Quasi-peak at 10 m 230 MHz – 1 000 MHz, 37 dB(μV/m) Quasi-peak at 10 m Or: 30 MHz – 230 MHz, 40 dB(μV/m) Quasi-peak at 3 m in a semi-anechoic chamber

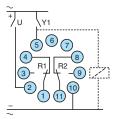


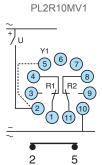
R2 INST

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Connections

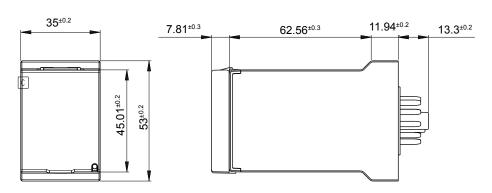
PU2R10MV1, PA2R10MV1, PC2R10MV1





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