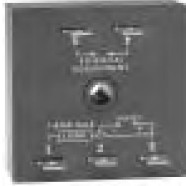
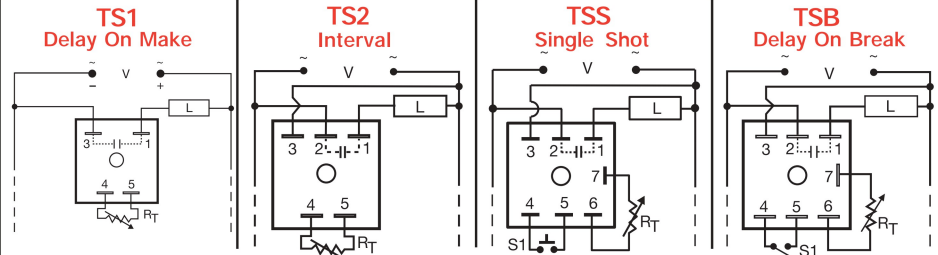


TS1, TS2, TSS, TSB Series Versa-Timer Timing Modules



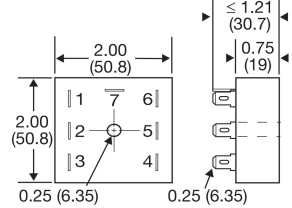
- Low Cost Analog Circuitry For General Use
- Totally Solid State - Encapsulated
- 5 mA ... 1 A Steady - 10 A Inrush
- Adjustable Delays From 50 ms ... 10 m
- AC Input Voltages
- +/-2% Repeat Accuracy



V = Voltage L = Load S1 = Initiate Switch RT = External Adjustment

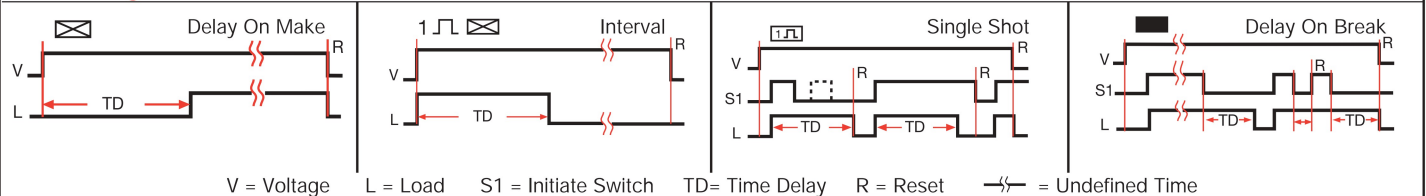
Versa-timers offer proven reliability and performance with years of use in industrial and commercial applications. Analog circuitry and high volume production techniques make this series very affordable. All versa-timers have two terminals for external adjustment.

Other voltages 12 V DC, 24 V AC or DC, 120 V DC, 230 V AC and fixed time delay versions are available.



Voltage	Time Range	RT Value	P/N	P/N	P/N	P/N
120 VAC 50/60 Hz +/-20%	0.05 ... 3 s	1S/1 MΩ	TS1421	TS2421	TSS421	TSB421
	0.5 ... 60 s	20S/1 MΩ	TS1422	TS2422	TSS422	TSB422
	2 ... 180 s	60S/1 MΩ	TS1423	TS2423	TSS423	TSB423
	5 ... 600 s	120S/1 MΩ	TS1424	TS2424	TSS424	TSB424

Time Diagrams



V = Voltage L = Load S1 = Initiate Switch TD = Time Delay R = Reset — = Undefined Time

Specifications

Repeat Accuracy	+/- 2% under fixed conditions	
Tolerance (Factory Calibration)	- +/-10%	
Recycle Time	≤ 16 ms after timing	≤ 150 ms
Time Delay vs. Temperature & Voltage	- +/- 10%	
Output : - Form	Open during timing	Closed during timing
- Rating (max.)	1 A steady state	1 A steady state 10 A inrush at 55°C
- Voltage Drop	≅ 2.5 V at 1 A	
Dielectric Breakdown	≥ 2000 V RMS Terminals to mounting surface	
Insulation Resistance	≥ 100 MΩ	
Termination	0.25 inch (6.35mm) male quick connect terminals	
Operating Temperature / Storage Temperature	-40° ... +75°C / -40° ... +85°C	

Accessories

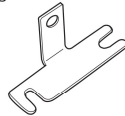
Time Range	Max RT Value	P/N		P/N		P/N		P/N	
		VTP	Versa-Pot	VTP	Versa-Pot	VTR	Versa-Pot	VTR	Versa-Pot
0.05 ... 3 s	3 MΩ +/- 10%	VTP4B	P100412X	VTP4B	P100412X	VTR4B	P100412X	VTR4B	P100412X
0.5 ... 60 s	3 MΩ +/- 10%	VTP4F	P100412X	VTP4F	P100412X	VTR4F	P100412X	VTR4F	P100412X
2 ... 180 s	3 MΩ +/- 10%	VTP4J	P100412X	VTP4J	P100412X	VTR4J	P100412X	VTR4J	P100412X
5 ... 600 s	5 MΩ +/- 10%	VTP5N	P100413X	VTP5N	P100413X	VTR5N	P100413X	VTR5N	P100413X

Desired Time Delay*	Seconds				RT Megohm
	1	2	3	4	
0.05	0.5	2	5	0.0	
0.5	10	30	60	0.5	
1.0	20	60	120	1.0	
1.5	30	90	180	1.5	
2.0	40	120	240	2.0	
2.5	50	150	300	2.5	
3.0	60	180	360	3.0	
			420	3.5	
			480	4.0	
			540	4.5	
			600	5.0	

* When selecting an external RT add at least 20% for tolerance of unit and the RT.

Mounting bracket

P/N: P1023 6



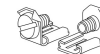
Female quick connect
P/N: P1015 64
(AWG 14/16)
(2.45mm²/1.34mm²)



Versa-knob
P/N: P0700 7

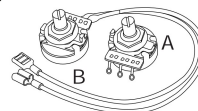


Quick connect to screw adaptor
P/N: P1015 18



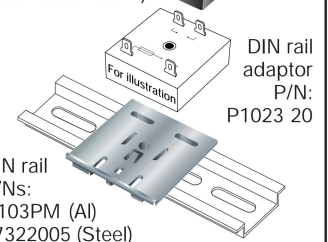
External adjust potentiometer P/N: P1004 XXX
(See Table above for figure B P/N's.
For figure A P/N's, remove 'X' from figure B P/N's)

Figure B includes Versa-Pot and two 8 inch (203mm) wires with female quick connect terminals.



See accessory pages for specifications.

Plug-on adjustment module
P/N: VTXXX
(See Table Above)



DIN rail adaptor
P/N: P1023 20

DIN rail
P/Ns:
C103PM (Al)
17322005 (Steel)