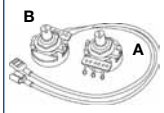
Delay On Make
TS1 Versa-Timer Timing Module

- Two Terminal Series Connection with Load
- 5 mA ... 1 A Load Currents
- Totally Solid State – Encapsulated
- +/-2% Repeat Accuracy
- Fixed or Adjustable Delays From 50 ms ... 10 m in 8 Ranges

Approvals:

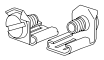
Female quick connect P/N: **P1015-64** (AWG 14/16)

Accessories



External adjust potentiometer P/N: **P1004-XX** (fig A) **P1004-XX-X** (fig B)

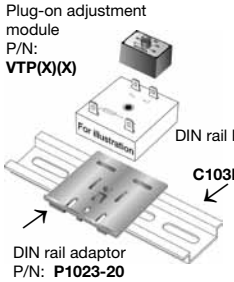
Mounting bracket P/N: **P1023-6**



Quick connect to screw adaptor P/N: **P1015-18**

Versa-knob P/N: **P0700-7**

Plug-on adjustment module P/N: **VTP(X)(X)**



DIN rail P/Ns: **C103PM** (Al)

DIN rail adaptor P/N: **P1023-20**

See accessory pages for specifications.

Description

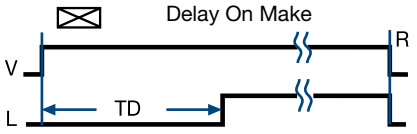
Versa-Timer offers proven reliability and performance with years of use in OEM equipment and commercial applications. This encapsulated general use timing module is capable of controlling load currents ranging from 5 mA to 1 A. May be connected in series with contactors, relays, valves, solenoids, small motors, and lamps.

Operation

Upon application of input voltage, the time delay begins. The output is de-energized before and during the time delay. At the end of the time delay, the output energizes and remains energized until input voltage is removed.

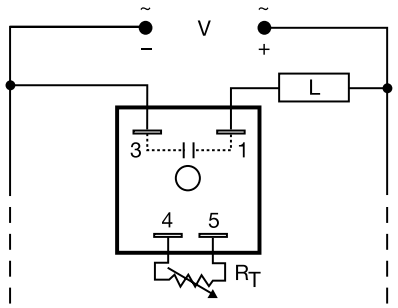
Reset: Removing input voltage resets the time delay and output.

Function



V = Voltage L = Load R = Reset
TD = Time Delay ⟋⟍ = Undefined time

Connection



Load may be connected to terminal 3 or 1.
R_T is used when external adjustment is ordered.

12 VDC			
Time Delay	VTP P/N	Fig. A P/N	Fig. B P/N
1 – 0.05 ... 1 s	VTP2A	P1004-16	P1004-16-X
2 – 0.5 ... 20 s	VTP2E	P1004-16	P1004-16-X
3 – 2 ... 60 s	VTP2F	P1004-16	P1004-16-X
4 – 5 ... 120 s	VTP2H	P1004-16	P1004-16-X

All Other Voltages			
Time Delay	VTP P/N	Fig. A P/N	Fig. B P/N
1 – 0.05 ... 3 s	VTP4B	P1004-12	P1004-12-X
2 – 0.5 ... 60 s	VTP4F	P1004-12	P1004-12-X
3 – 2 ... 180 s	VTP4J	P1004-12	P1004-12-X
4 – 5 ... 600 s	VTP5N	P1004-13	P1004-13-X

Available Models-

TS1111	TS11190	TS1210.15
TS12110	TS121150	TS12120
TS12130	TS121360	TS12160
TS12190	TS1221	TS1222
TS1224	TS13115	TS1315
•TS1321	TS1322	TS1410.1
TS1410.25	TS1411	TS14110
TS14115	TS141180	TS1412
TS14120	TS14130	TS1415
TS1416	TS14160	TS141600
•TS1421	•TS1422	•TS1423
•TS1424	TS1521	TS1612
TS1615	•TS1621	TS1622

Don't see what you need? Call us for a minimum quantity and price quote!

Ordering Table

TS1 Series

X Input
- **1** - 12 V DC
- **2** - 24 V AC
- **3** - 24 V DC
- **4** - 120 V AC
- **5** - 120 V DC
- **6** - 230 V AC

X Adjustment
- **1** - Fixed
- **2** - External Adjust

X Time Delay*

	12 V DC	All Other Voltages
1 -	0.05 ... 1 s	0.05 ... 3 s
2 -	0.5 ... 20 s	0.5 ... 60 s
3 -	2 ... 60 s	2 ... 180 s
4 -	5 ... 120 s	5 ... 600 s

*If Fixed Delay is selected, insert delay [**0.05** ... **120**] (12V DC) or [**0.05** ... **600**] (other voltages) in secs.

Example P/N: **TS1122** Fixed – **TS1411.5**

TS102B01 09.10

• denotes a preferred product

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TS1 Versa-Timer
Timing Module

Dedicated timers

Technical Data

Time Delay		
Type		Analog circuitry
Range	12 V DC	0.05 ... 120 s in 4 adjustable ranges or fixed (1 MΩ max. R_T)
	Other Voltages	0.05 ... 600 s in 4 adjustable ranges or fixed
Repeat Accuracy		+/-2% or 20 ms, whichever is greater
Tolerance (Factory Calibration)		≤ +/-10%
Recycle Time		After timing – ≤ 16 ms
		During timing – 0.1% of time delay or 75 ms, whichever is greater
Time Delay vs. Temperature & Voltage		≤ +/-10%
Input		
Voltage		12, 24 or 120 V DC; 24, 120, or 230 V AC
Tolerance		+/-20%
Line Frequency		50 ... 60 Hz
Output		
Type		Solid state
Form		Normally Open, open during timing
Maximum Load Current		1 A steady state, 10 A inrush at 60°C
Minimum Holding Current		5 mA
Voltage Drop		≅ 2.5 V at 1 A
Protection		
Circuitry		Encapsulated
Dielectric Breakdown		≥ 2000 V RMS terminals to mounting surface
Insulation Resistance		≥ 100 MΩ
Polarity		DC units are reverse polarity protected
Mechanical		
Mounting		Surface mount with one #10 (M5 x 0.8) screw
Termination		0.25 in. (6.35 mm) male quick connect terminals
Environmental		
Operating/Storage Temperature		-40°C ... +80°C / -40°C ... +85°C
Humidity		95% relative, non-condensing
Weight		≅ 2.4 oz (68 g)

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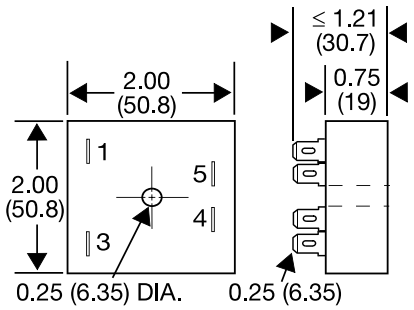
R_T Selection Chart				
Desired Time Delay* Seconds				R_T
1	2	3	4	Megohm
0.05	0.5	2	5	0.0
0.5	10	30	60	0.5
1.0	20	60	120	1.0
▼ 24VDC or AC ONLY† ▼				
1.5	30	90	180	1.5
2.0	40	120	240	2.0
2.5	50	150	300	2.5
3.0	60	180	360	3.0
			420	3.5
			480	4.0
			540	4.5
			600	5.0

* When selecting an external R_T add at least 20% for tolerance of unit and the R_T.
† 1 Megohm max for 12 VDC Units

Mechanical View



Inches(Millimeters)

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